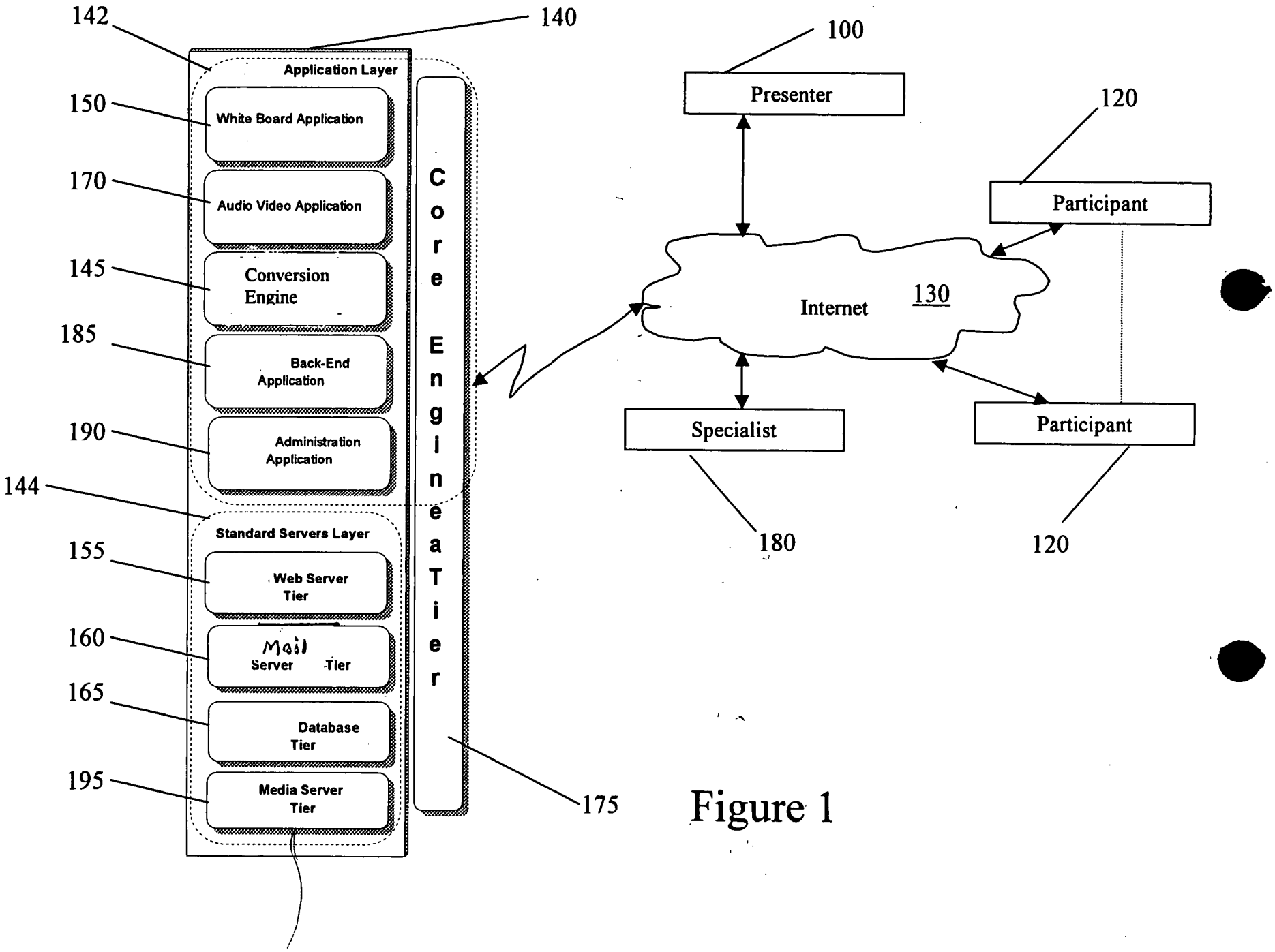
142
140
Application Layer
150
White Board Application
170
Audio Video Application
145
Conversion Engine
185
Back-End Application
190
Administration Application
144
Standard Servers Layer
155
Web Server Tier
160
Mail Server Tier
165
Database Tier
195
Media Server Tier
Core Engine Tier
175
100
Presenter
120
Participant
Internet
130
Specialist
180
Participant
120

Figure 1

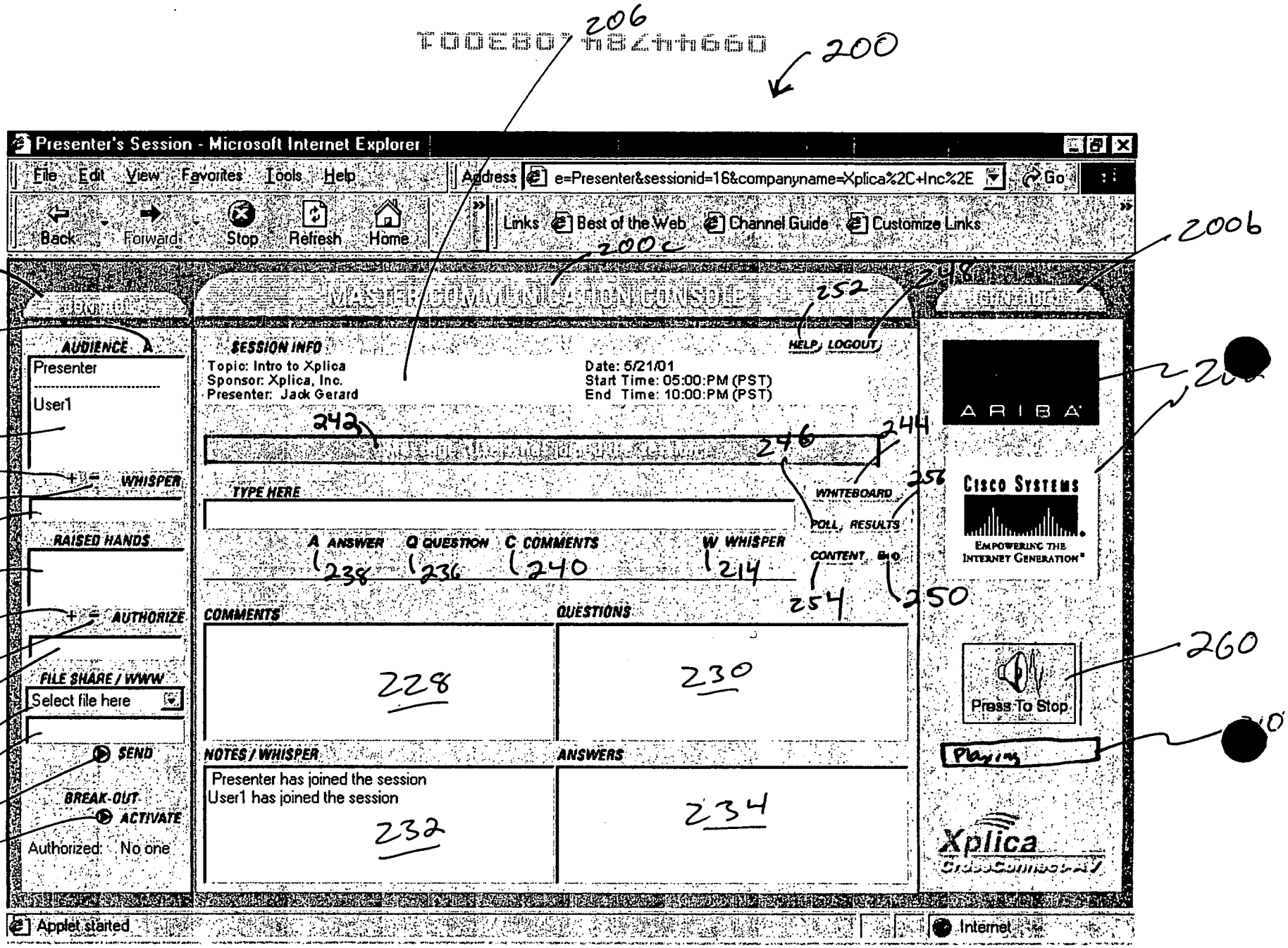
206
200
Presenter's Session - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address e=Presenter&sessionid=16&companyname=Xplica%2C+Inc%2E
Go
Back Forward Stop Refresh Home
Links Best of the Web Channel Guide Customize Links
200a
200c
200b
252
248
AUDIENCE
Presenter
User1
SESSION INFO
Topic: Intro to Xplica
Sponsor: Xplica, Inc.
Presenter: Jack Gerard
Date: 5/21/01
Start Time: 05:00:PM (PST)
End Time: 10:00:PM (PST)
HELP LOGOUT
242
246
244
WHISPER
TYPE HERE
WHITEBOARD
POLL RESULTS
256
A ANSWER
Q QUESTION
C COMMENTS
W WHISPER
238
236
240
214
CONTENT
254
250
RAISED HANDS
AUTHORIZE
COMMENTS
QUESTIONS
228
230
FILE SHARE / WWW
Select file here
SEND
260
Press To Stop
Playing
BREAK-OUT
ACTIVATE
NOTES / WHISPER
ANSWERS
Presenter has joined the session
User1 has joined the session
232
234
Authorized: No one
ARIBA
Cisco Systems
Empowering the Internet Generation
Xplica
Applet started
Internet
202
203
205
210
204
216
218
208
220
222
224
226
258

Fig 2

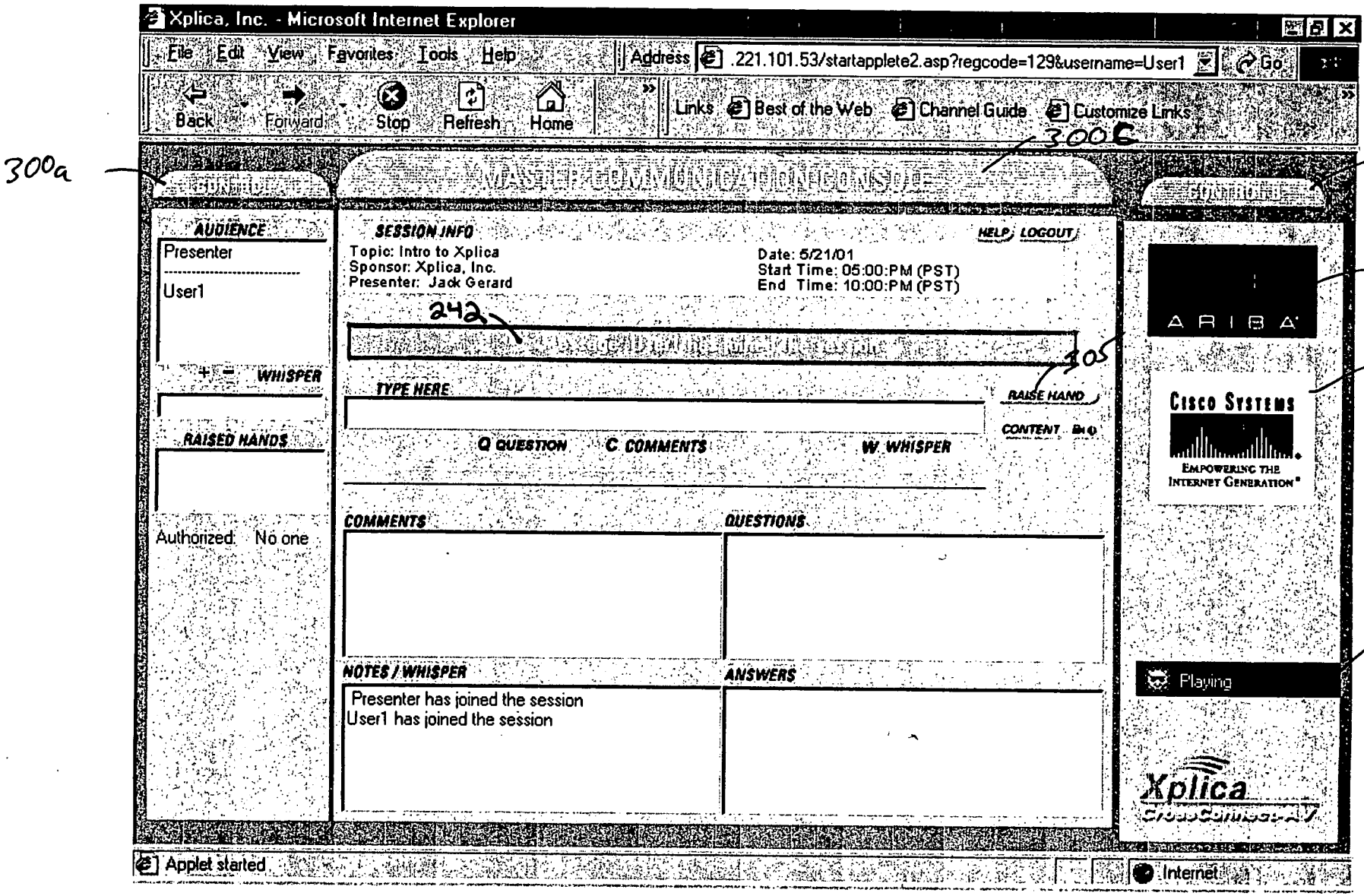
300
Xplica, Inc. - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address .221.101.53/startapplete2.asp?regcode=129&username=User1
Go
Back Forward Stop Refresh Home
Links Best of the Web Channel Guide Customize Links
300a
300c
300b
AUDIENCE
Presenter
User1
+ - WHISPER
RAISED HANDS
Authorized: No one
SESSION INFO
HELP LOGOUT
Topic: Intro to Xplica
Sponsor: Xplica, Inc.
Presenter: Jack Gerard
Date: 5/21/01
Start Time: 05:00:PM (PST)
End Time: 10:00:PM (PST)
242
305
TYPE HERE
RAISE HAND
CONTENT
Q QUESTION
C COMMENTS
W WHISPER
COMMENTS
QUESTIONS
NOTES / WHISPER
ANSWERS
Presenter has joined the session
User1 has joined the session
ARIBA
262
CISCO SYSTEMS
EMPOWERING THE INTERNET GENERATION
310
Playing
Xplica
Applet started
Internet

Fig 3

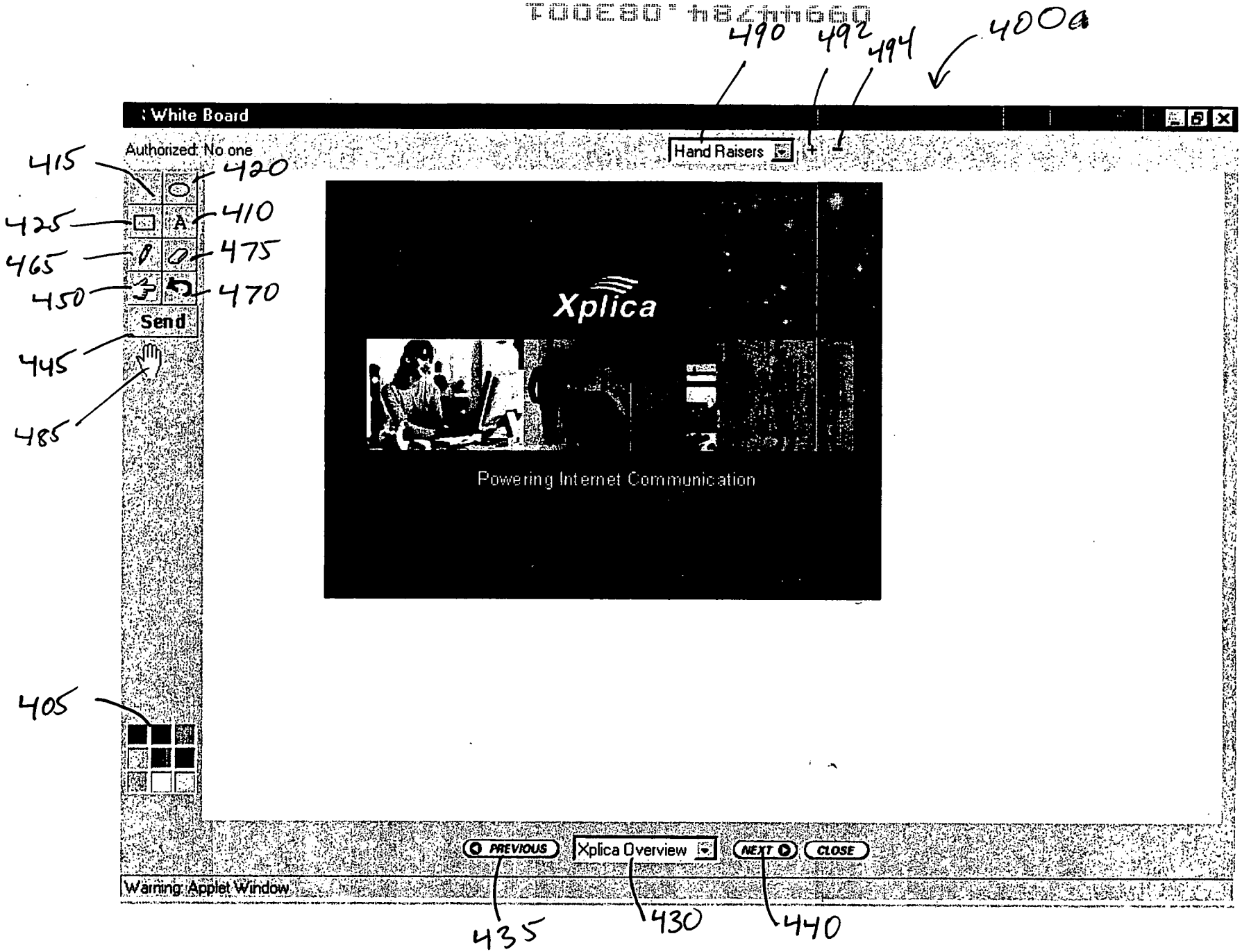
White Board
Authorized: No one
Hand Raisers
Send
Xplica
Powering Internet Communication
PREVIOUS
Xplica Overview
NEXT
CLOSE
Warning: Applet Window
400a
490
492
494
415
420
410
425
465
475
450
470
445
485
405
435
430
440

Fig 4a

FOOE80 nBZnn66D

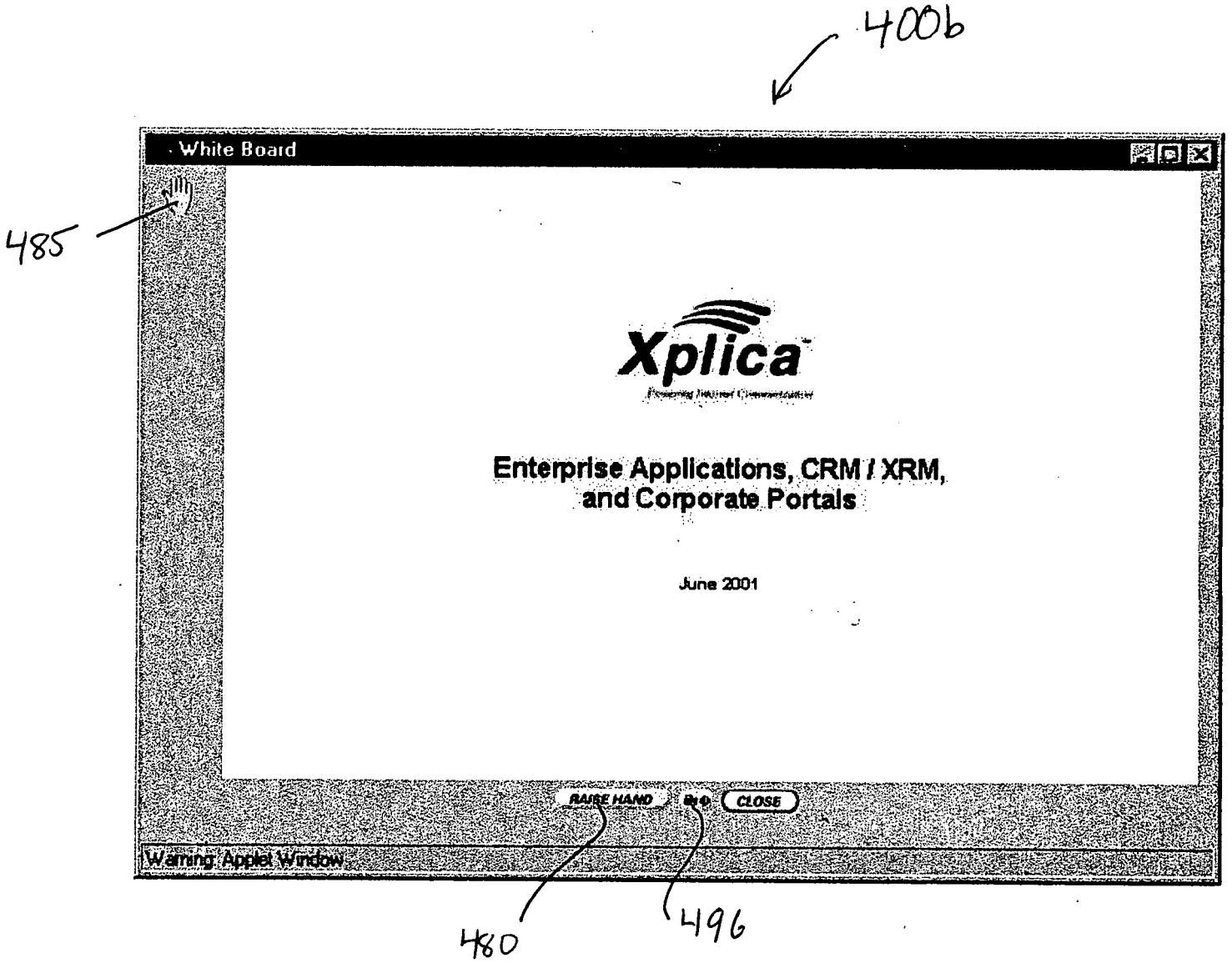

Figure 4b

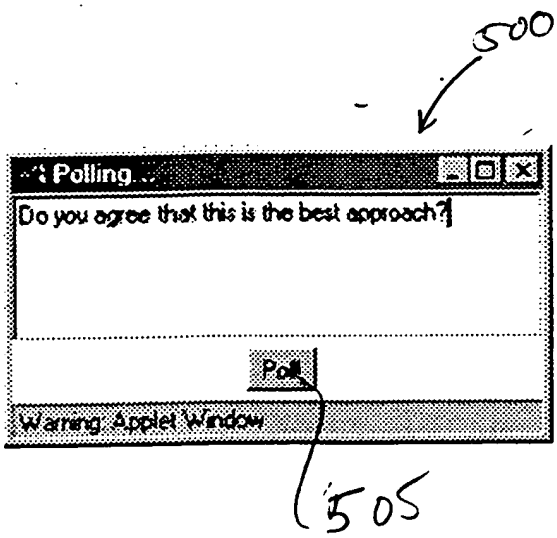
500
Polling...
Do you agree that this is the best approach?
Poll
Warning: Applet Window
505

Figure 5a

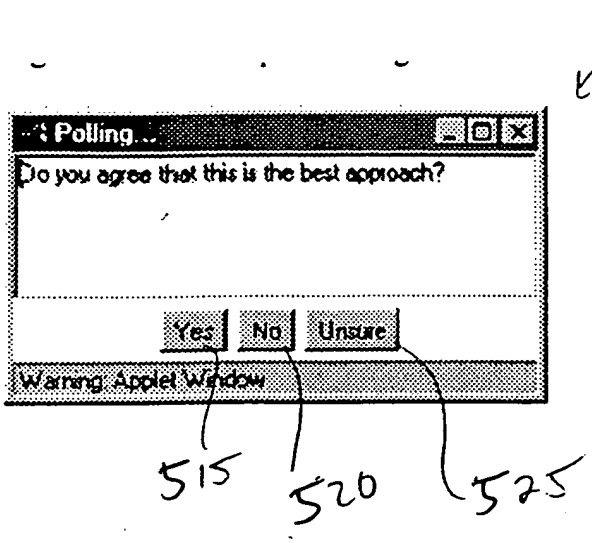

Figure 5b

Express Mail Label No. EL 703 550 443 US

F00E80" n82hh660

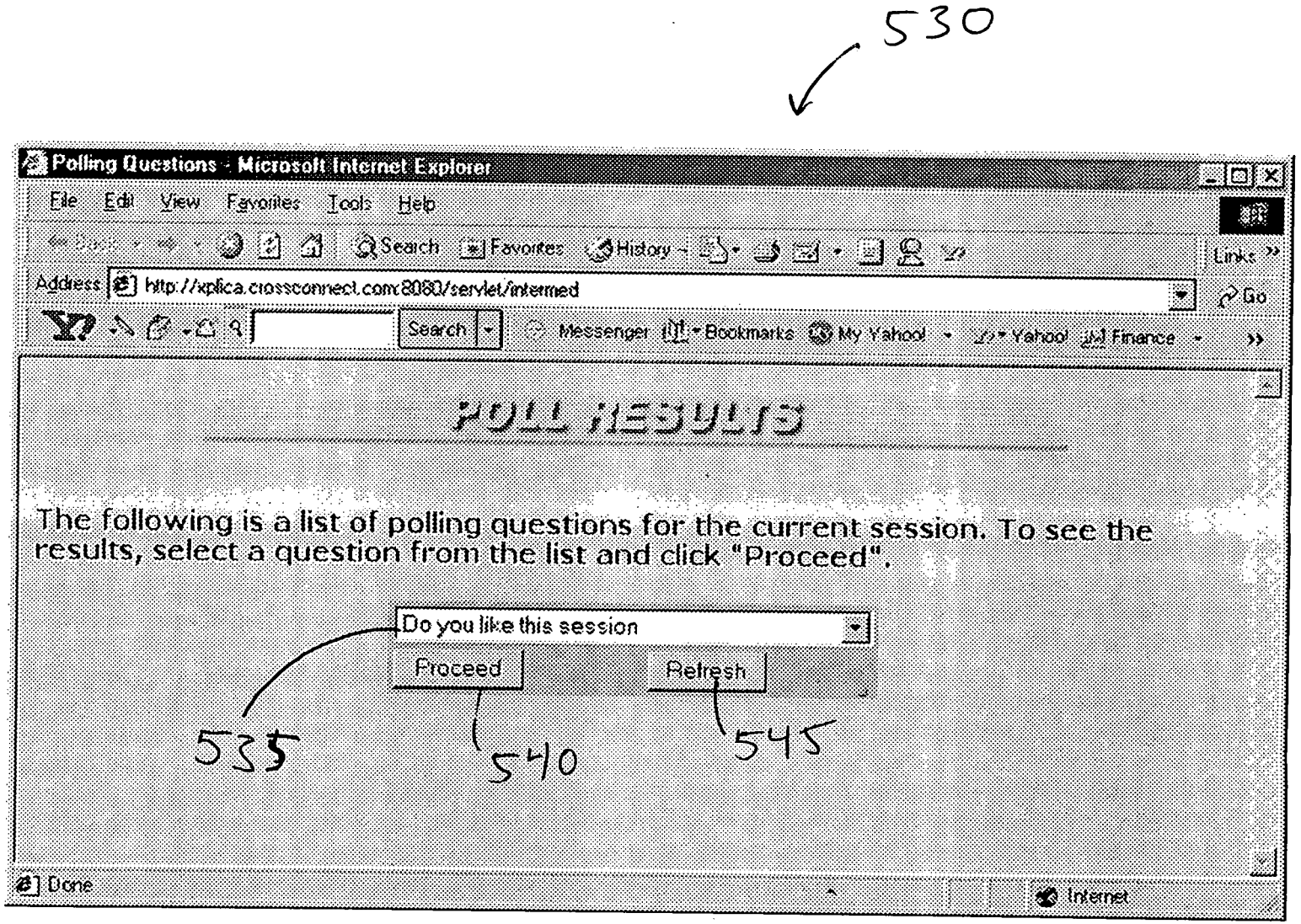

Figure 5c

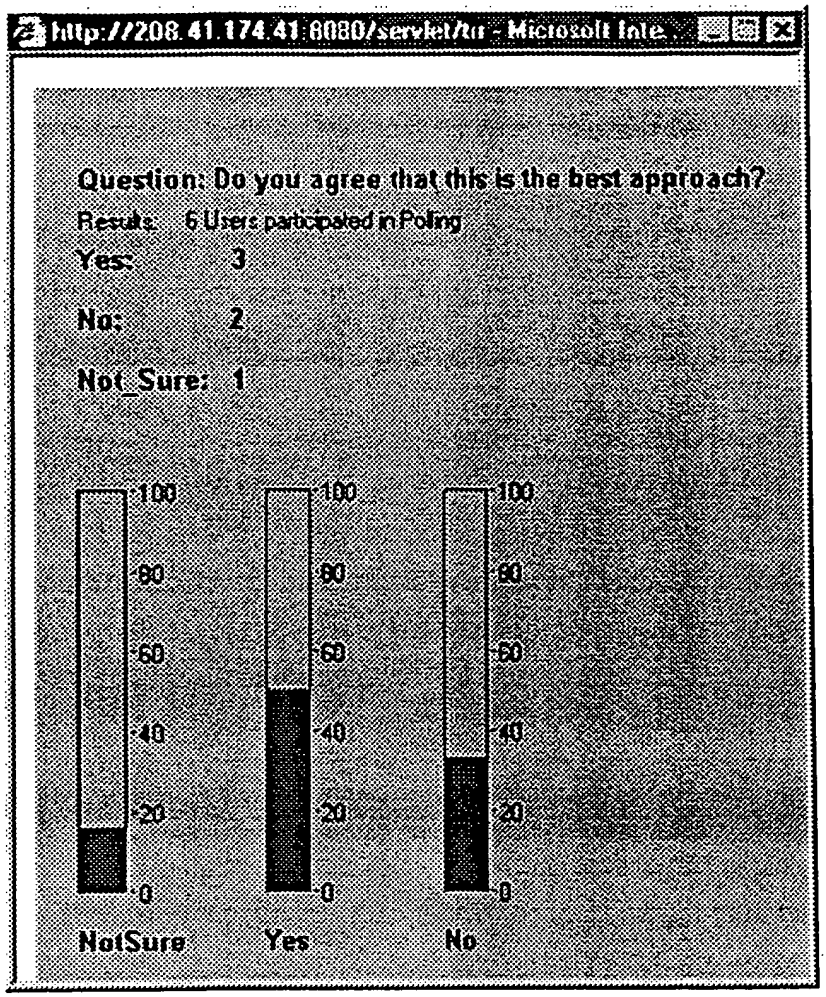
http://208.41.174.41:8080/servlet/to - Microsoft Inte
Question: Do you agree that this is the best approach?
Results: 6 Users participated in Polling
Yes: 3
No: 2
Not_Sure: 1
100
80
60
40
20
0
NotSure
Yes
No

Fig. 5d

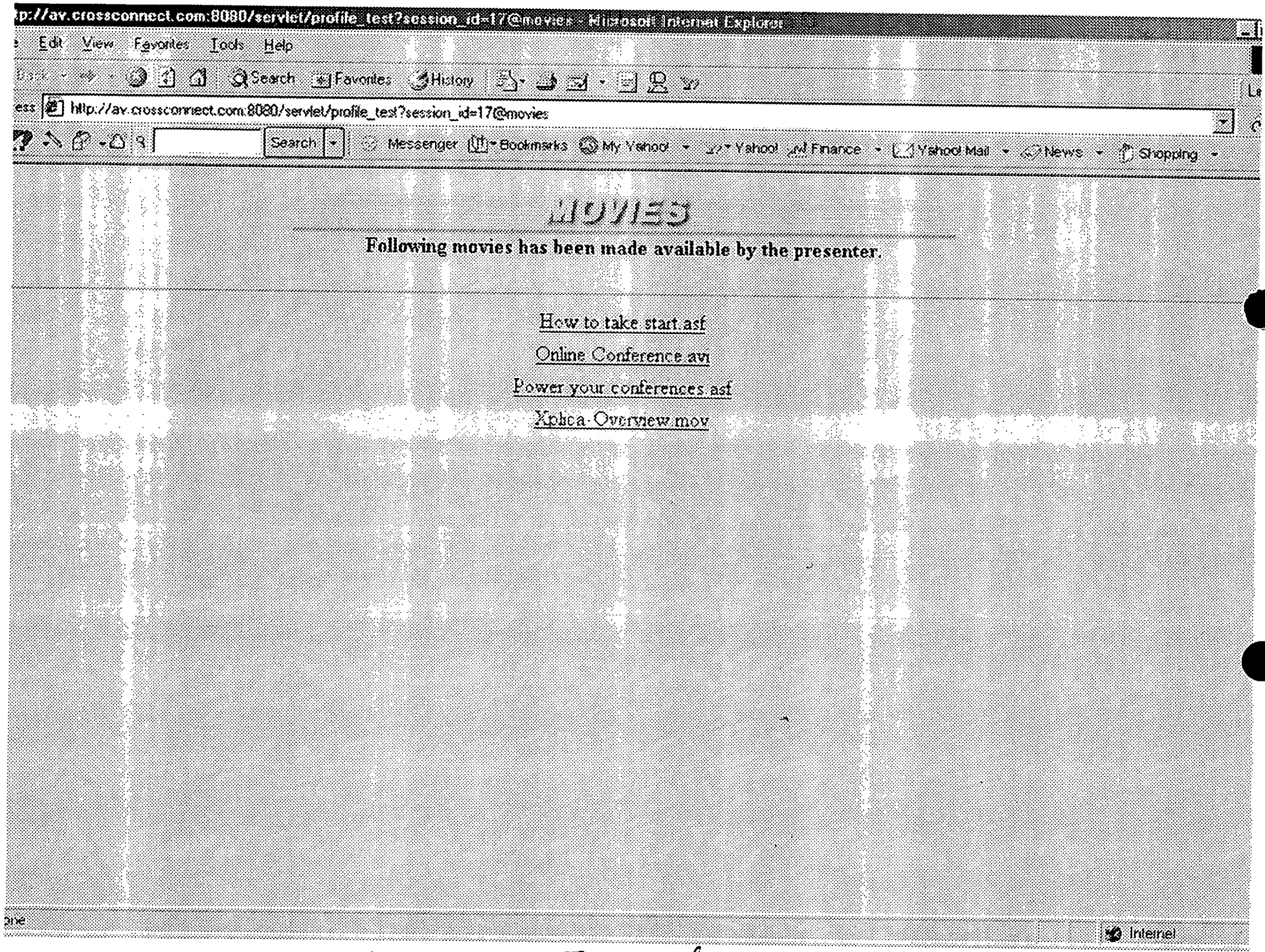
http://av.crossconnect.com:8080/servlet/profile_test?session_id=17@movies - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Search Favorites History
Address http://av.crossconnect.com:8080/servlet/profile_test?session_id=17@movies
Search
Messenger Bookmarks My Yahoo! Yahoo! Finance Yahoo! Mail News Shopping
MOVIES
Following movies has been made available by the presenter.
How to take start.asf
Online Conference.avi
Power your conferences.asf
Xplica-Overview.mov
Internet

Figure 6

700

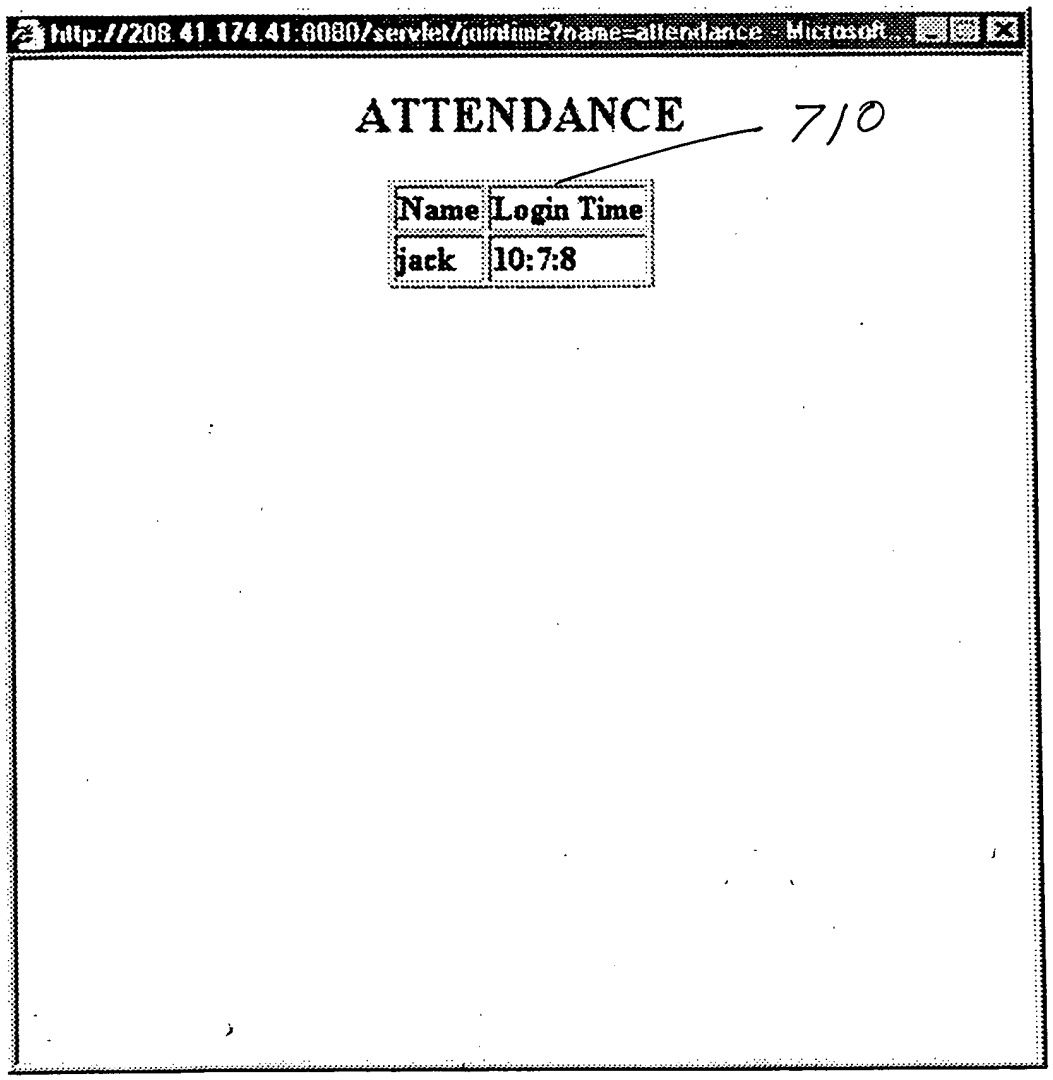
http://208.41.174.41:8080/servlet/jointime?name=attendance - Microsoft
ATTENDANCE
710
Name
Login Time
jack
10:7:8

Fig. 7

FOOE80 "1824n660

Homepage

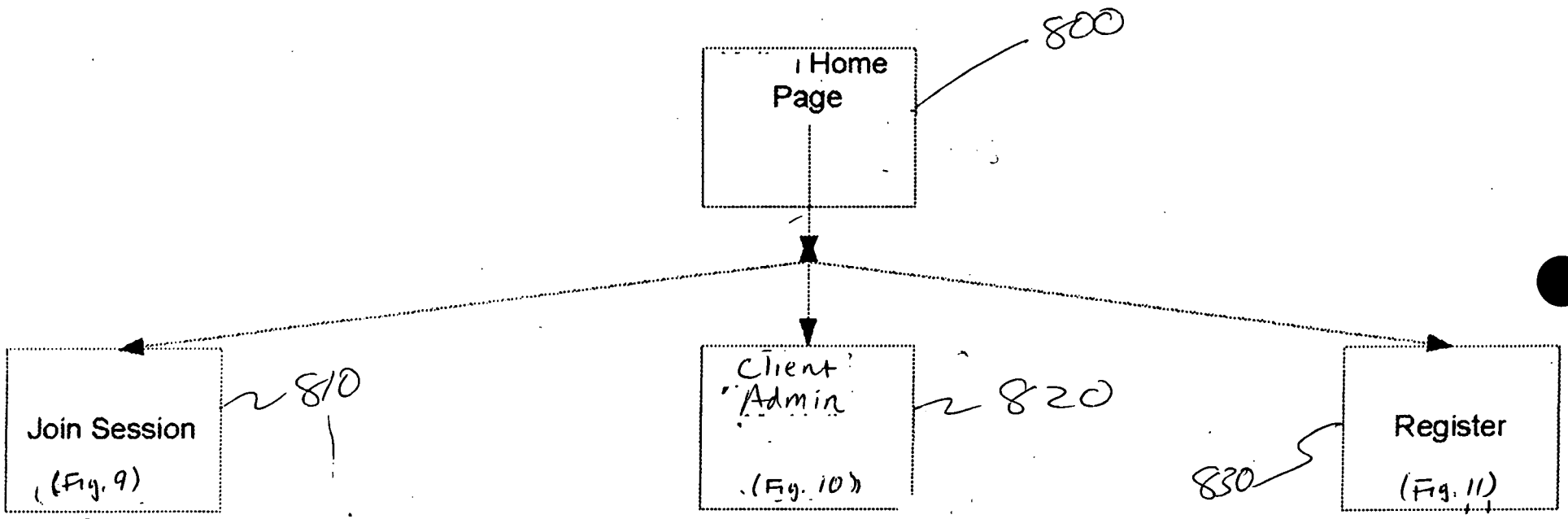

Fig. 8

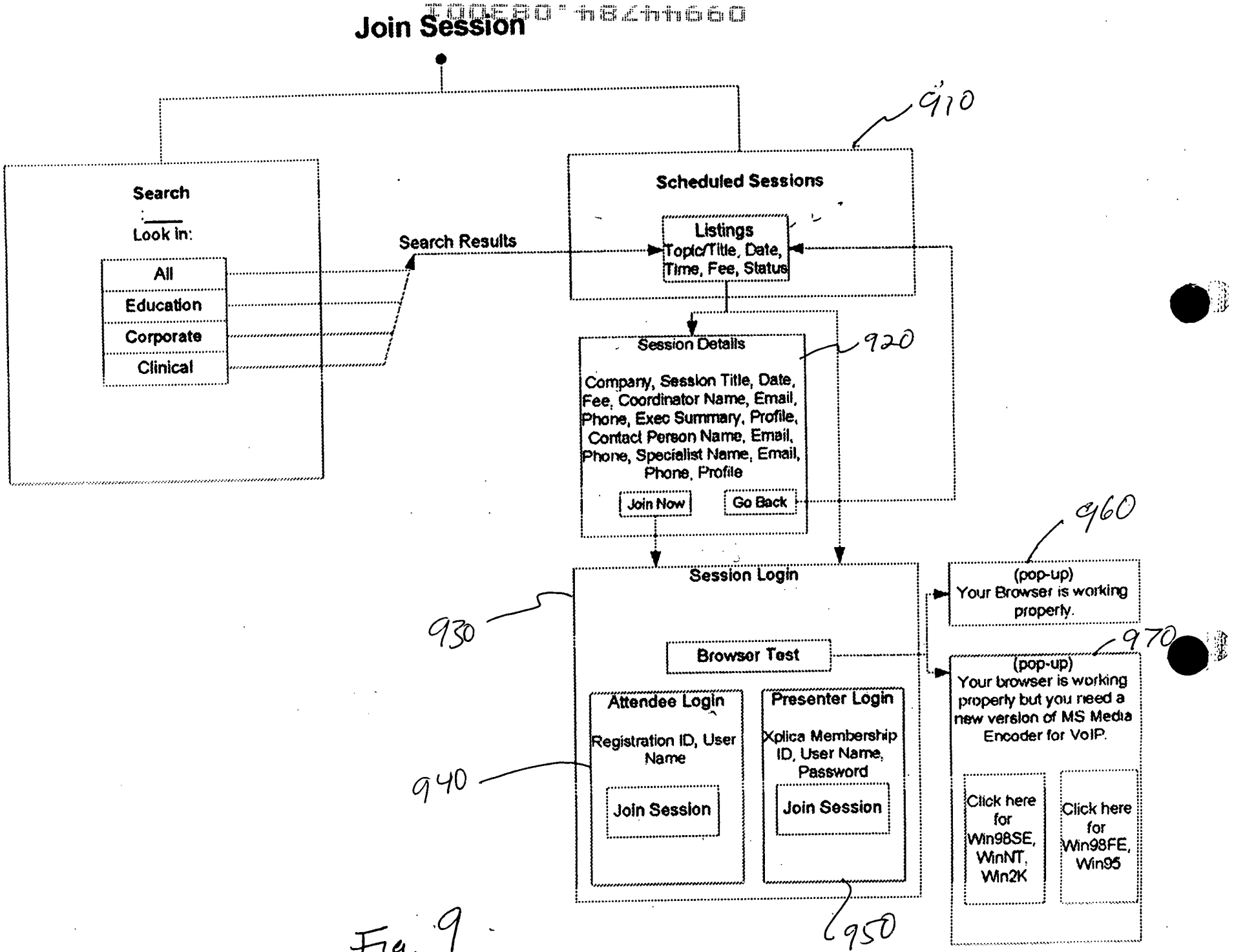
Join Session
910
Search
Look in:
All
Education
Corporate
Clinical
Search Results
Scheduled Sessions
Listings
Topic/Title, Date, Time, Fee, Status
Session Details
920
Company, Session Title, Date, Fee, Coordinator Name, Email, Phone, Exec Summary, Profile, Contact Person Name, Email, Phone, Specialist Name, Email, Phone, Profile
Join Now
Go Back
960
Session Login
930
(pop-up)
Your Browser is working properly.
970
Browser Test
(pop-up)
Your browser is working properly but you need a new version of MS Media Encoder for VoIP.
Attendee Login
Registration ID, User Name
940
Join Session
Presenter Login
Xplica Membership ID, User Name, Password
Join Session
Click here for Win98SE, WinNT, Win2K
Click here for Win98FE, Win95
950

Fig. 9

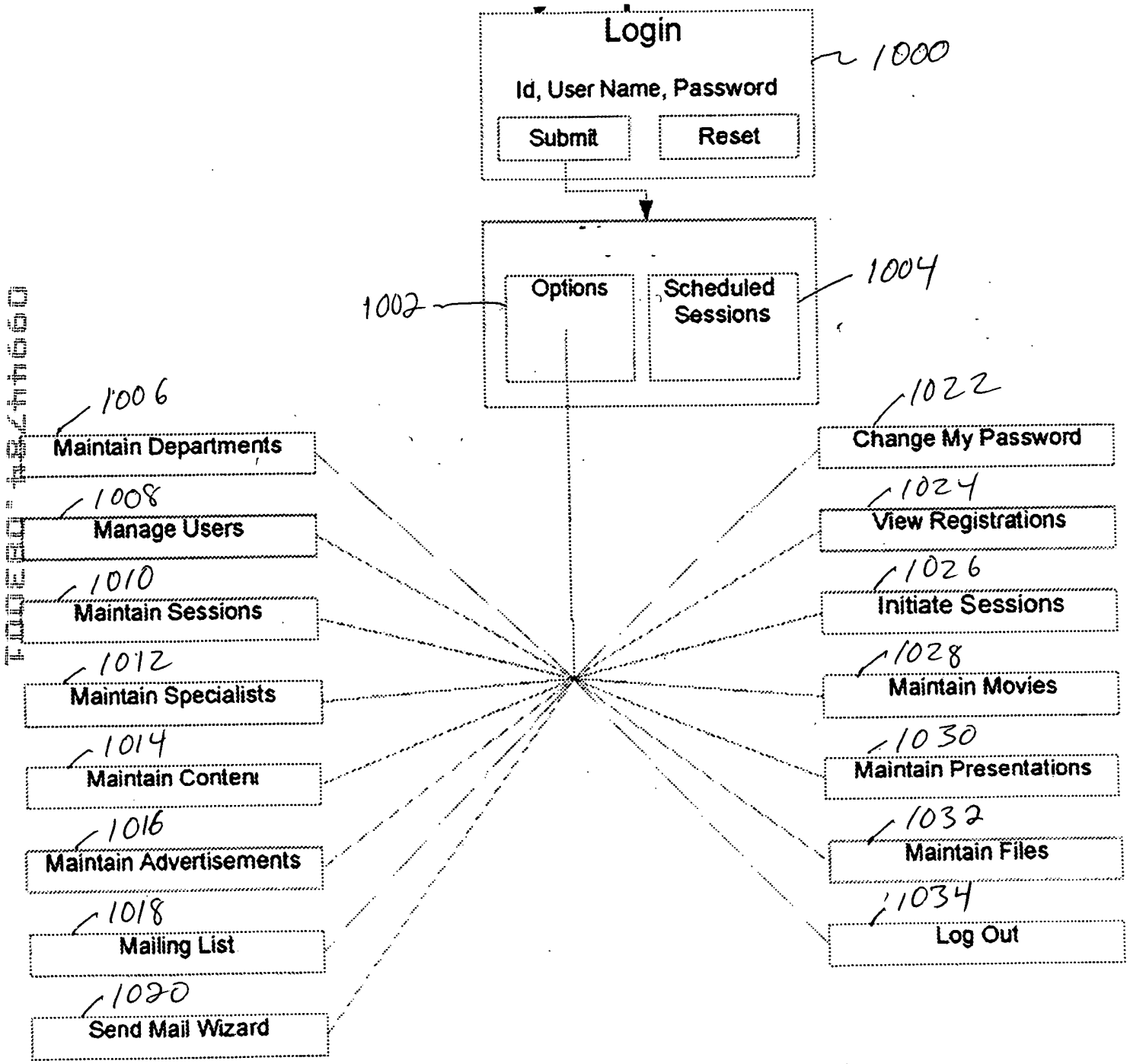
Login
Id, User Name, Password
Submit
Reset
1000
Options
Scheduled Sessions
1002
1004
1006
Maintain Departments
1008
Manage Users
1010
Maintain Sessions
1012
Maintain Specialists
1014
Maintain Content
1016
Maintain Advertisements
1018
Mailing List
1020
Send Mail Wizard
1022
Change My Password
1024
View Registrations
1026
Initiate Sessions
1028
Maintain Movies
1030
Maintain Presentations
1032
Maintain Files
1034
Log Out

Fig. 10a

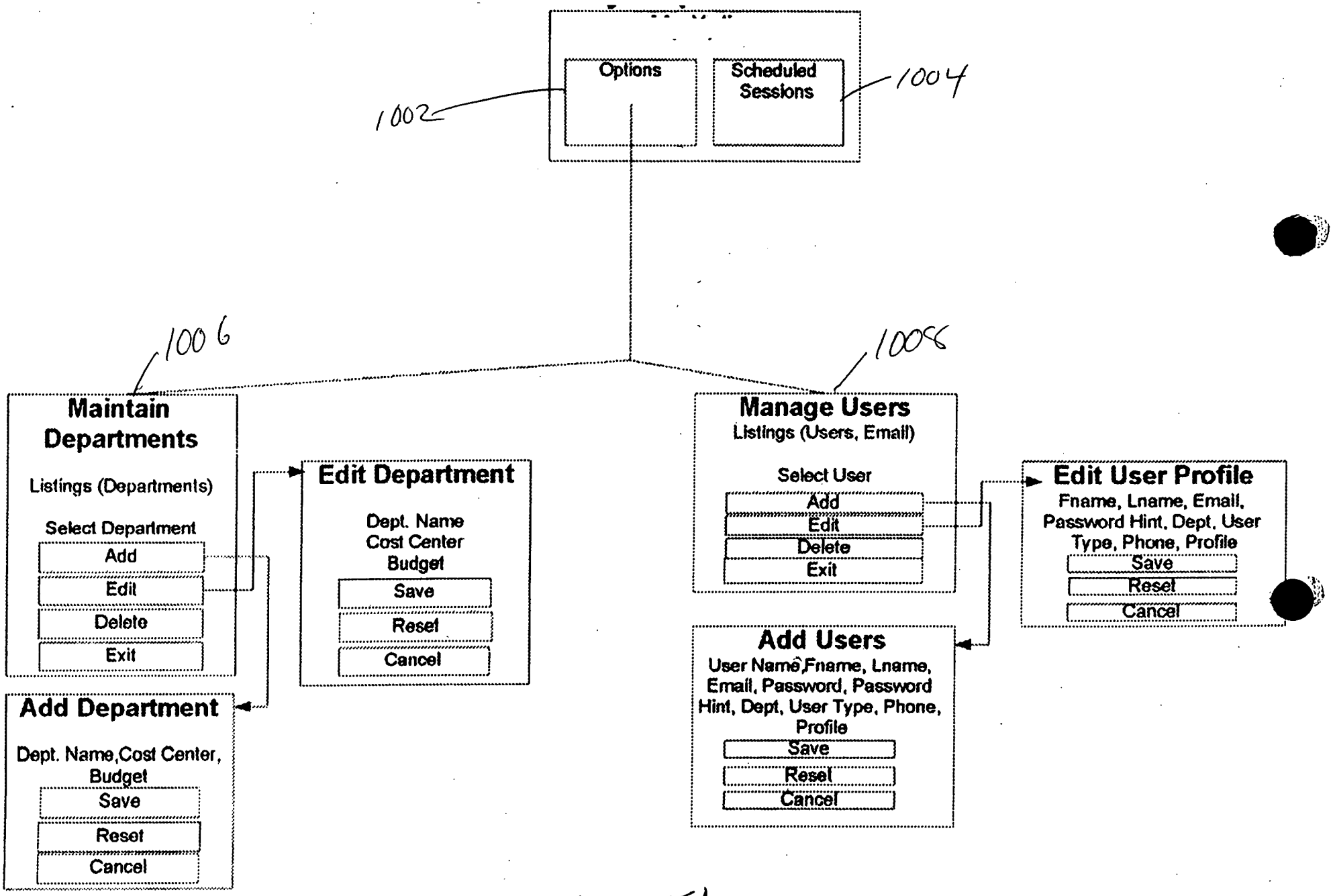
Options
Scheduled Sessions
1002
1004
1006
1006
Maintain Departments
Listings (Departments)
Select Department
Add
Edit
Delete
Exit
Edit Department
Dept. Name
Cost Center
Budget
Save
Reset
Cancel
Add Department
Dept. Name,Cost Center, Budget
Save
Reset
Cancel
Manage Users
Listings (Users, Email)
Select User
Add
Edit
Delete
Exit
Edit User Profile
Fname, Lname, Email, Password Hint, Dept, User Type, Phone, Profile
Save
Reset
Cancel
Add Users
User Name,Fname, Lname, Email, Password, Password Hint, Dept, User Type, Phone, Profile
Save
Reset
Cancel

Fig. 10b

TOPEBO "nBZnnGbO

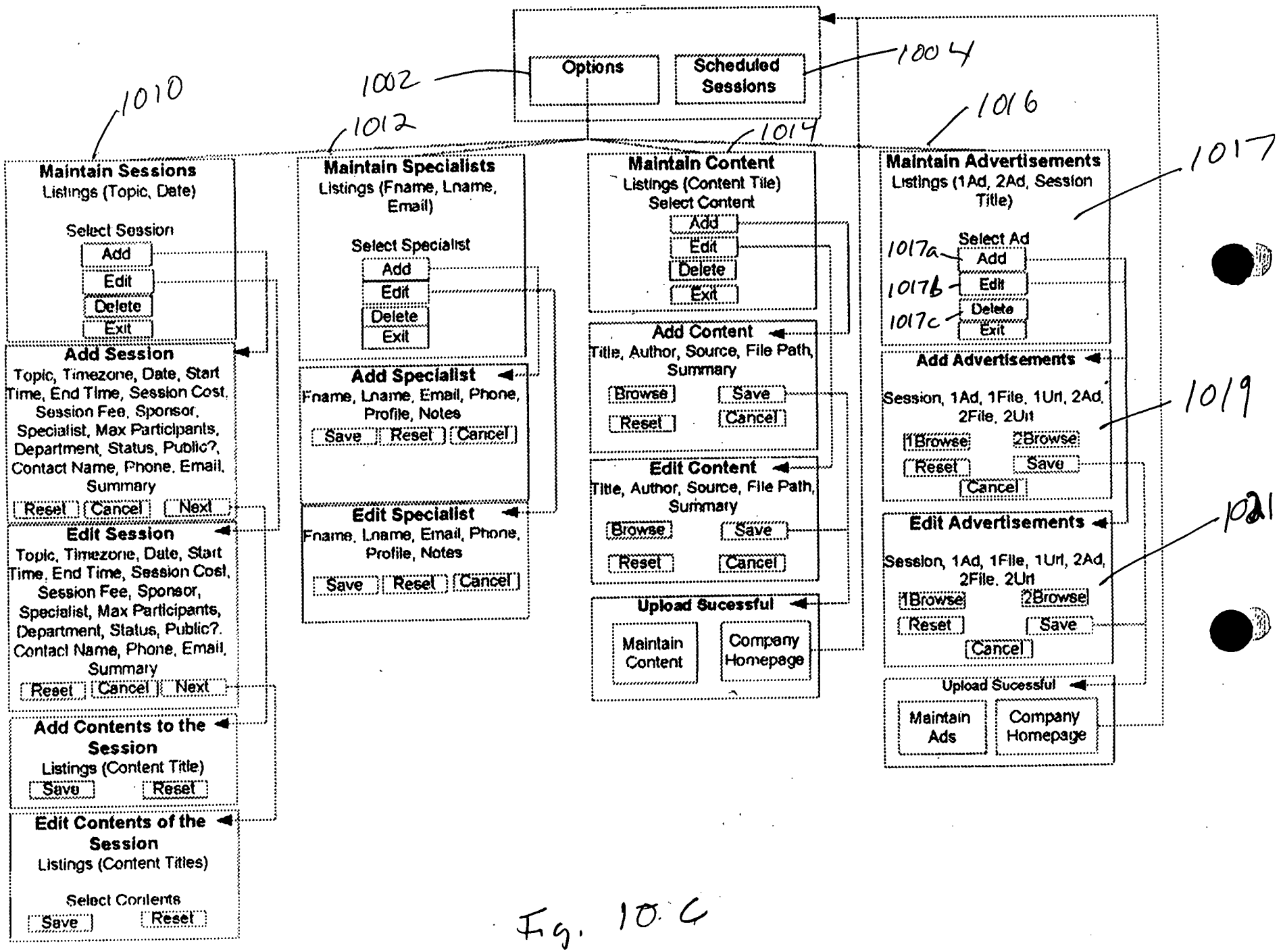

Fig. 10C

TOOE80 "h82hm60

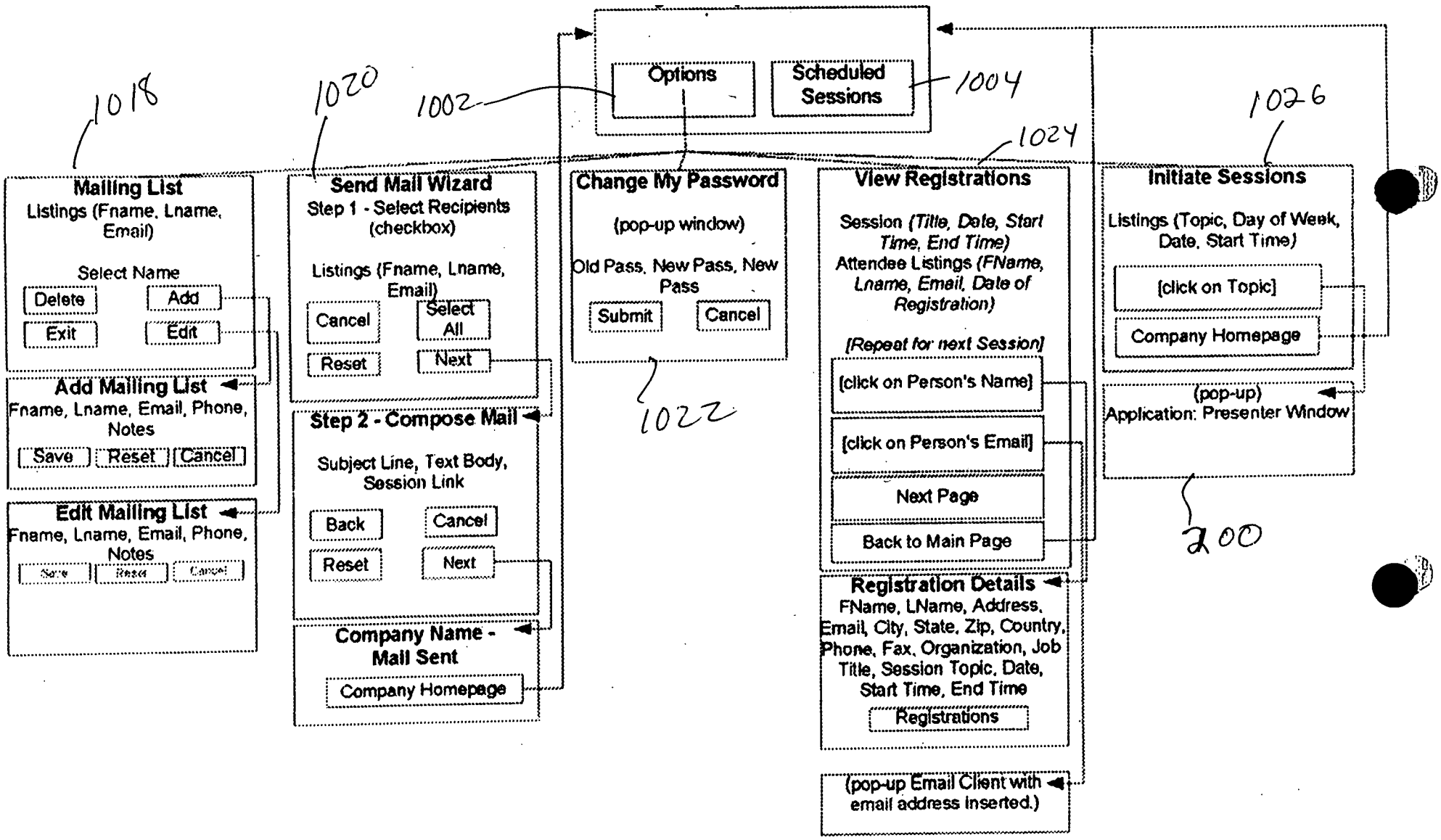

Fig. 10d

TOOE80 "nBZnn6D

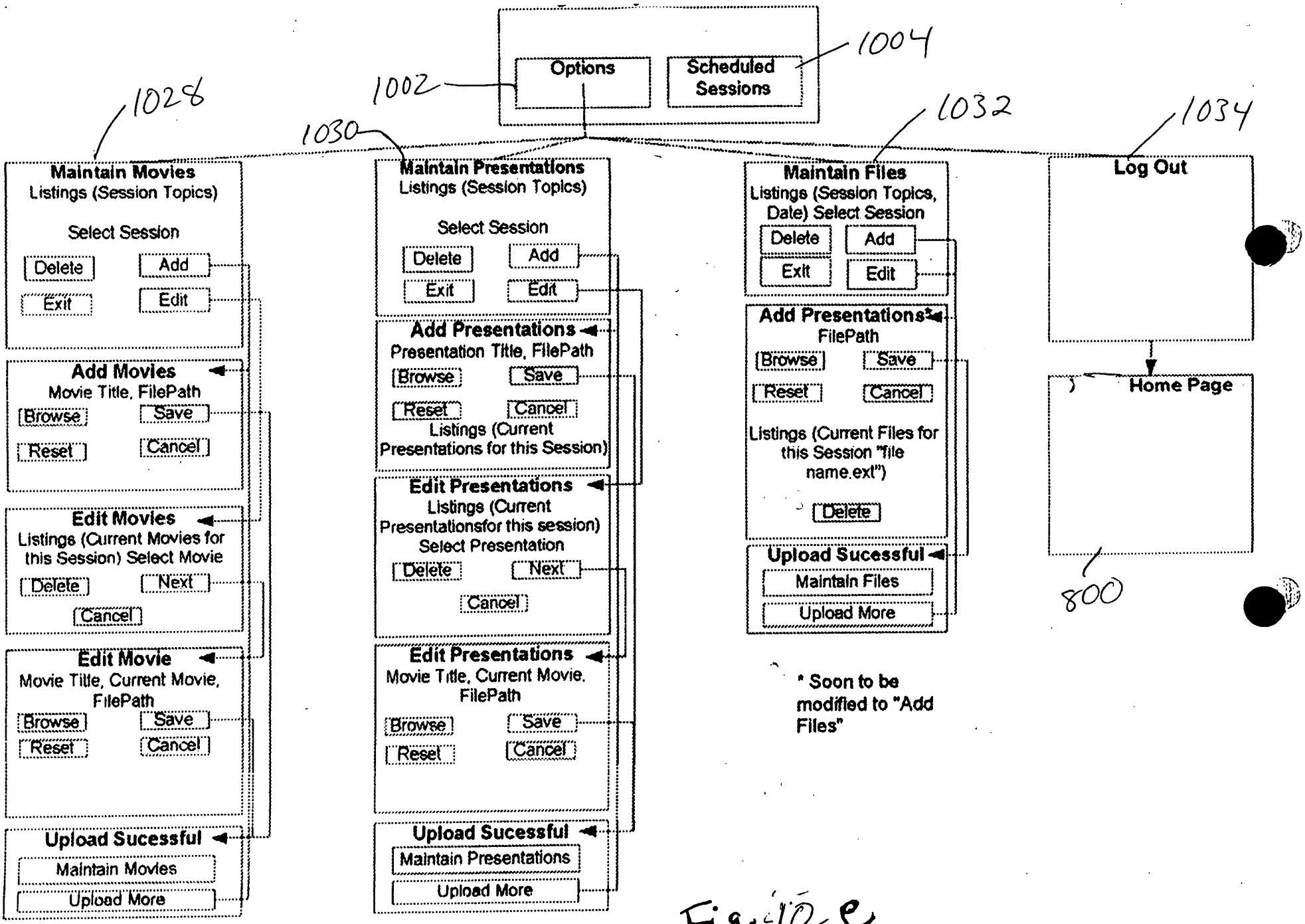

Fig. 10e

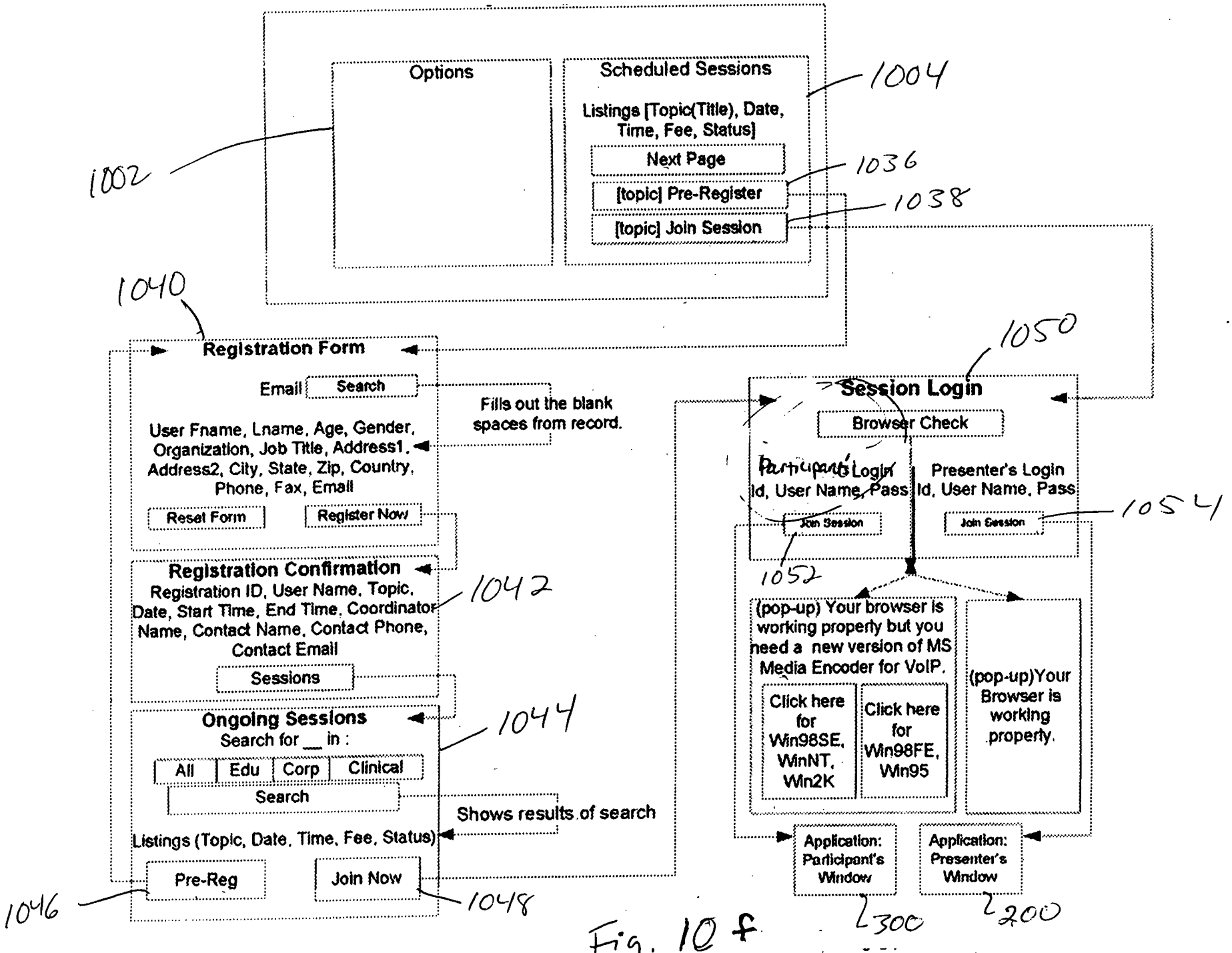
Options
Scheduled Sessions
Listings [Topic(Title), Date, Time, Fee, Status]
Next Page
[topic] Pre-Register
[topic] Join Session
1002
1004
1036
1038
1040
Registration Form
Email
Search
Fills out the blank spaces from record.
User Fname, Lname, Age, Gender, Organization, Job Title, Address1, Address2, City, State, Zip, Country, Phone, Fax, Email
Reset Form
Register Now
Registration Confirmation
Registration ID, User Name, Topic, Date, Start Time, End Time, Coordinator Name, Contact Name, Contact Phone, Contact Email
1042
Sessions
Ongoing Sessions
Search for __ in :
All
Edu
Corp
Clinical
Search
1044
Shows results of search
Listings (Topic, Date, Time, Fee, Status)
Pre-Reg
Join Now
1046
1048
1050
Session Login
Browser Check
Participant's Login
Id, User Name, Pass
Presenter's Login
Id, User Name, Pass
Join Session
Join Session
1054
1052
(pop-up) Your browser is working properly but you need a new version of MS Media Encoder for VoIP.
Click here for Win98SE, WinNT, Win2K
Click here for Win98FE, Win95
(pop-up)Your Browser is working properly.
Application: Participant's Window
Application: Presenter's Window
300
200

Fig. 10f

T00E80 "hB2hh660

Register

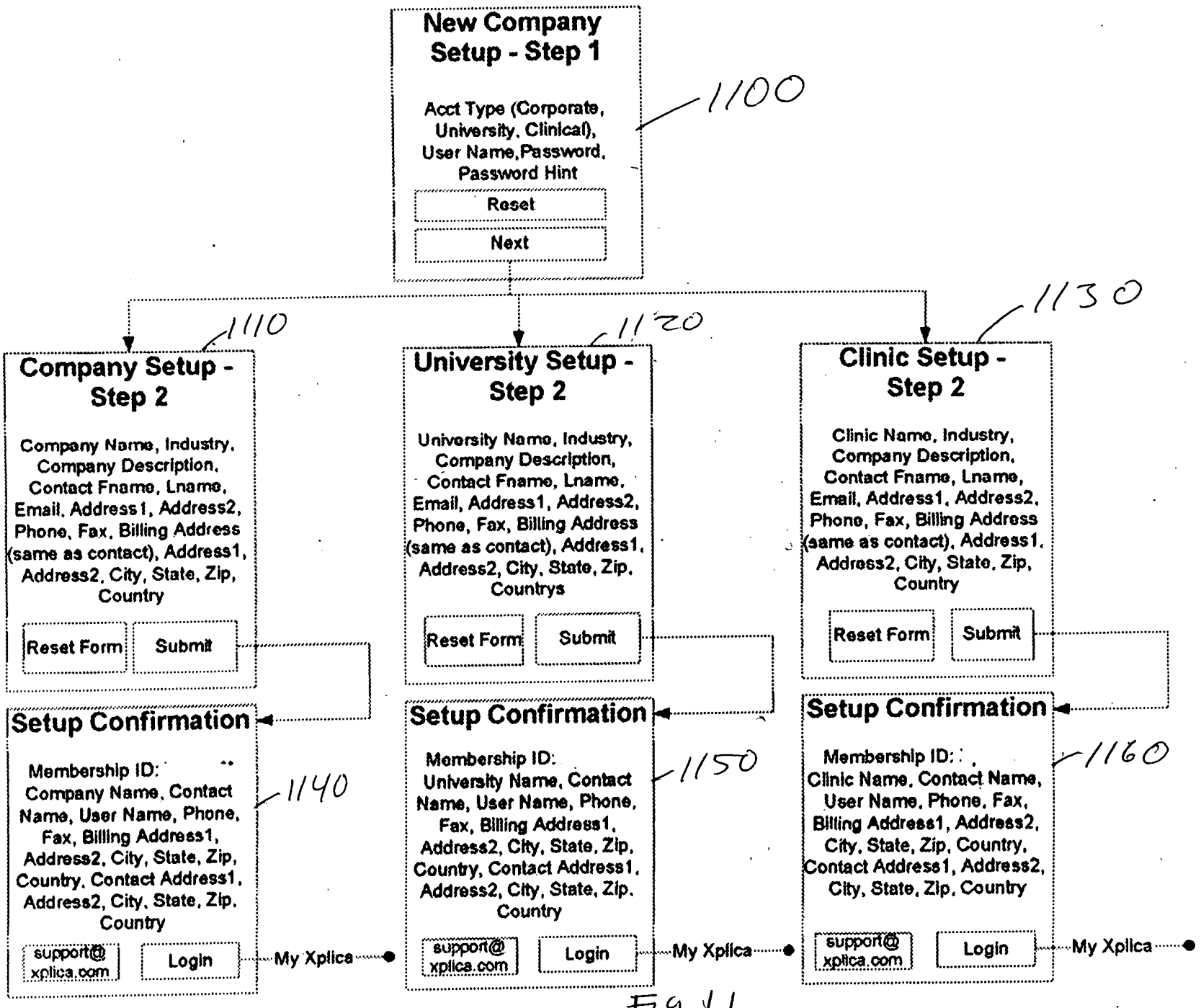

Fig 11

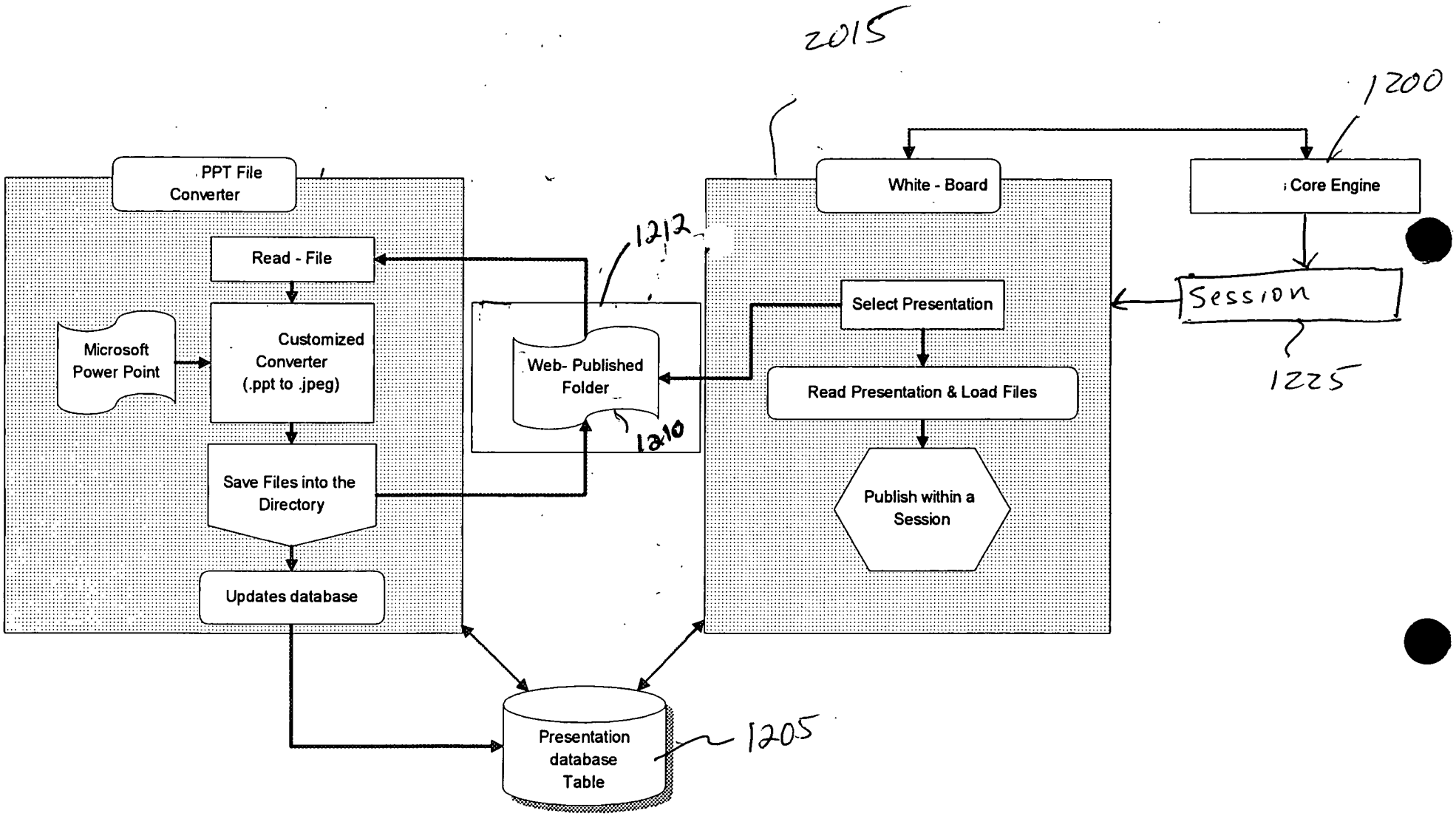
2015
1200
PPT File Converter
Read - File
Microsoft Power Point
Customized Converter (.ppt to .jpeg)
Save Files into the Directory
Updates database
1212
Web- Published Folder
1210
White - Board
Select Presentation
Read Presentation & Load Files
Publish within a Session
Core Engine
Session
1225
Presentation database Table
1205

Figure 12

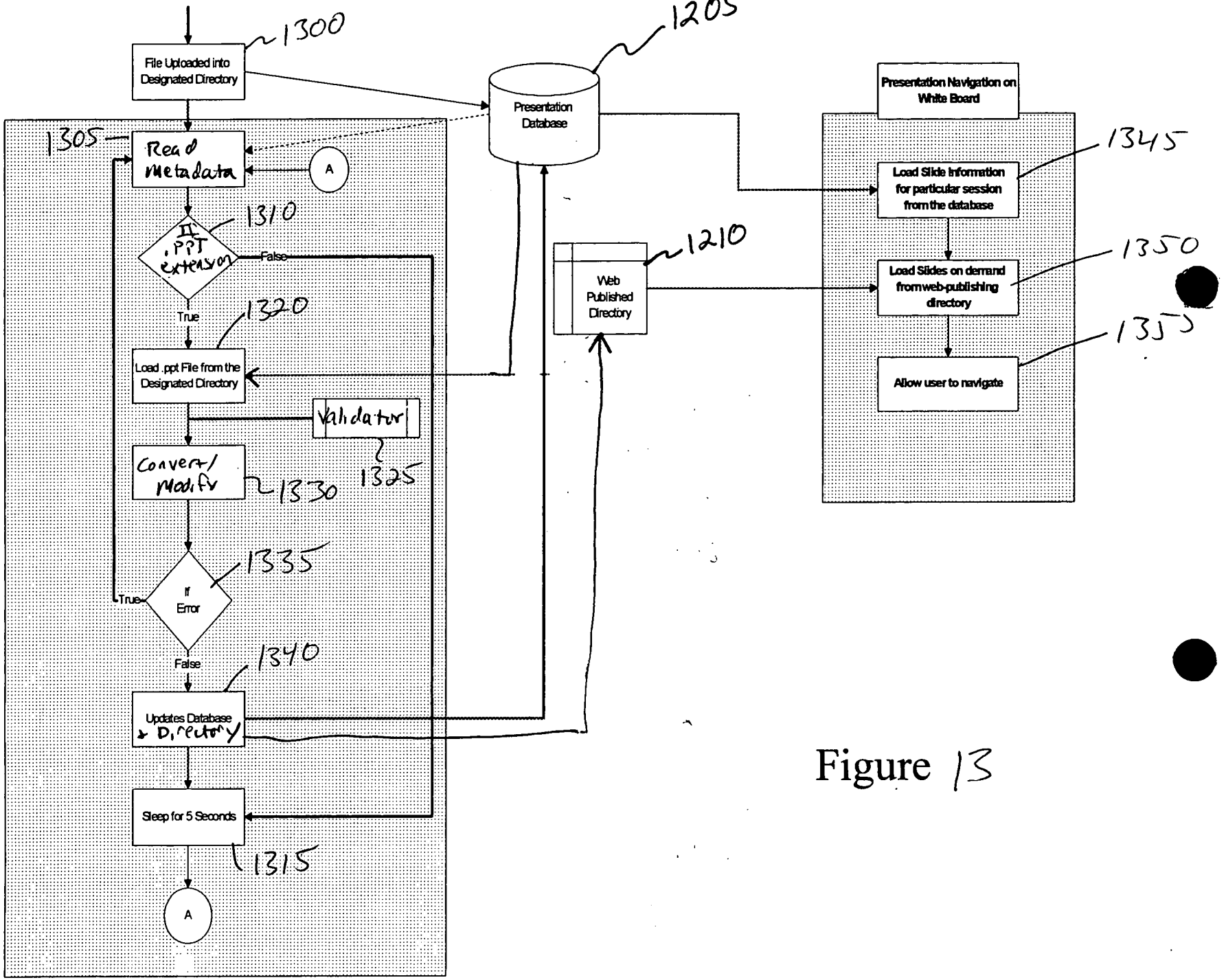
1300
File Uploaded into Designated Directory
1205
Presentation Database
Presentation Navigation on White Board
1305
Read Metadata
A
1310
If .PPT extension
False
True
1320
Load .ppt File from the Designated Directory
Validator
1325
Convert/ Modify
1330
1335
If Error
True
False
1340
Updates Database & Directory
Sleep for 5 Seconds
1315
A
1210
Web Published Directory
1345
Load Slide Information for particular session from the database
1350
Load Slides on demand from web-publishing directory
1355
Allow user to navigate

Figure 13

TOE80 "n82mm660

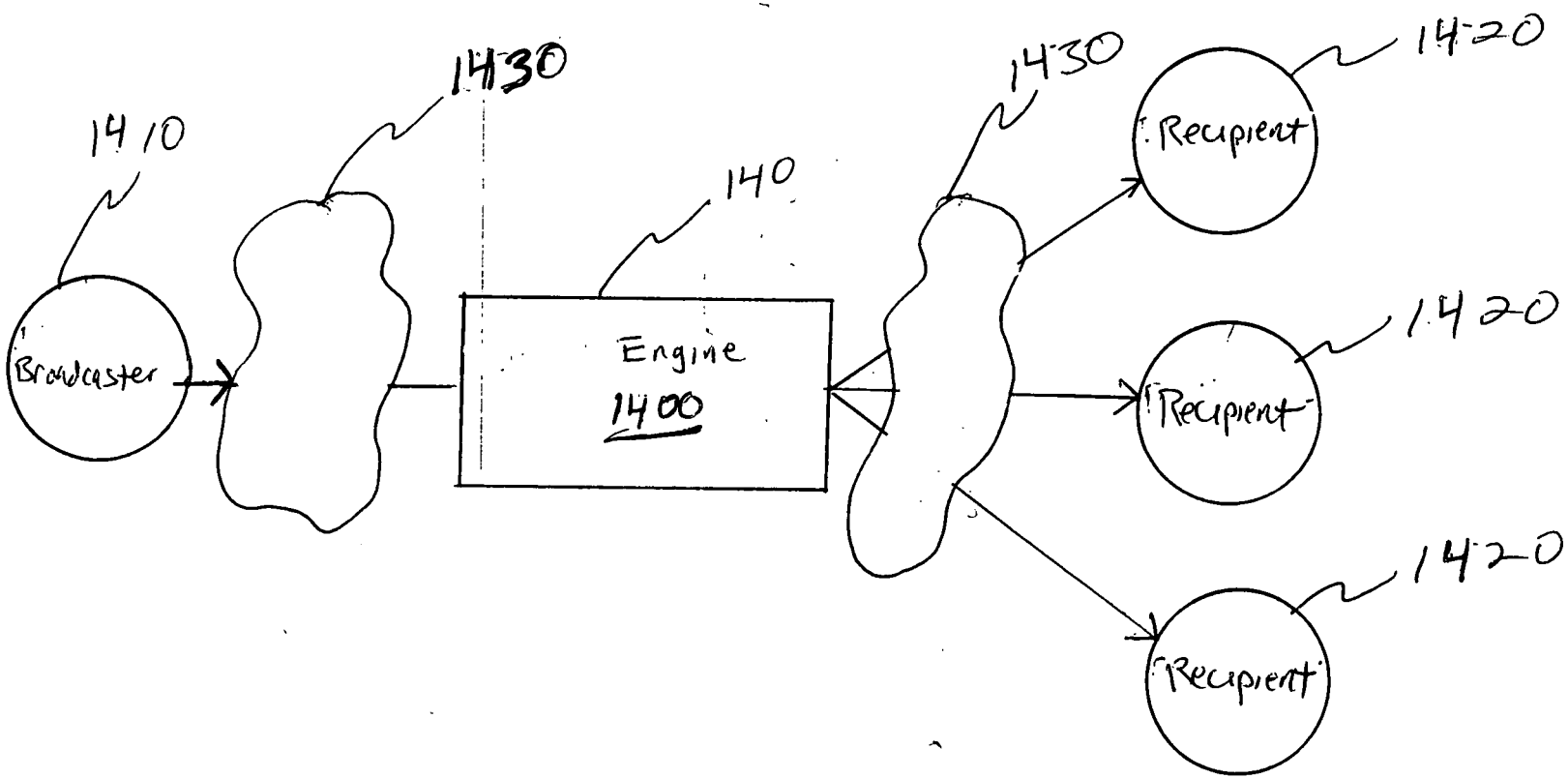

Figure 14

T00E30"nBZhh660

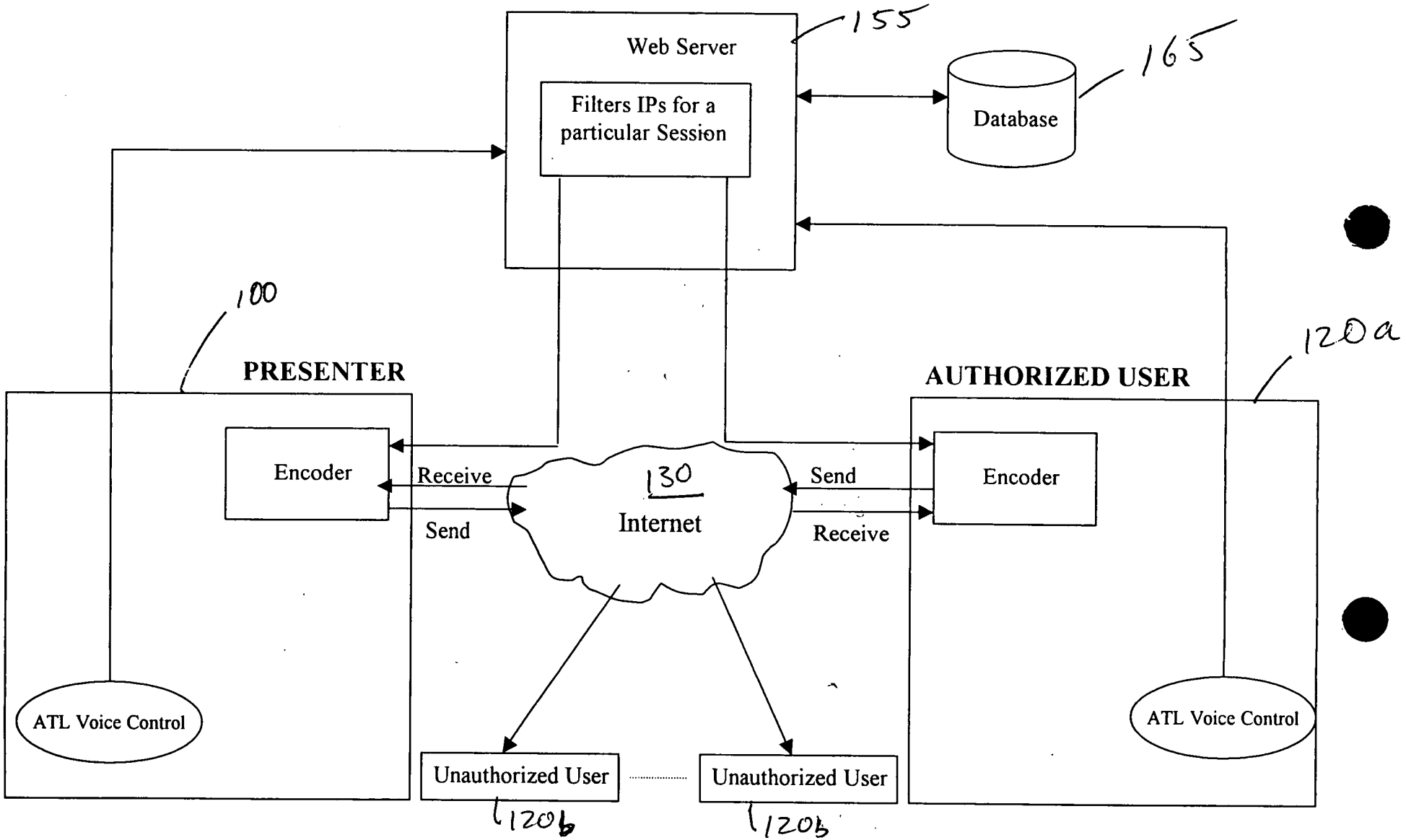

Figure 15

T00E80 "n82nn660

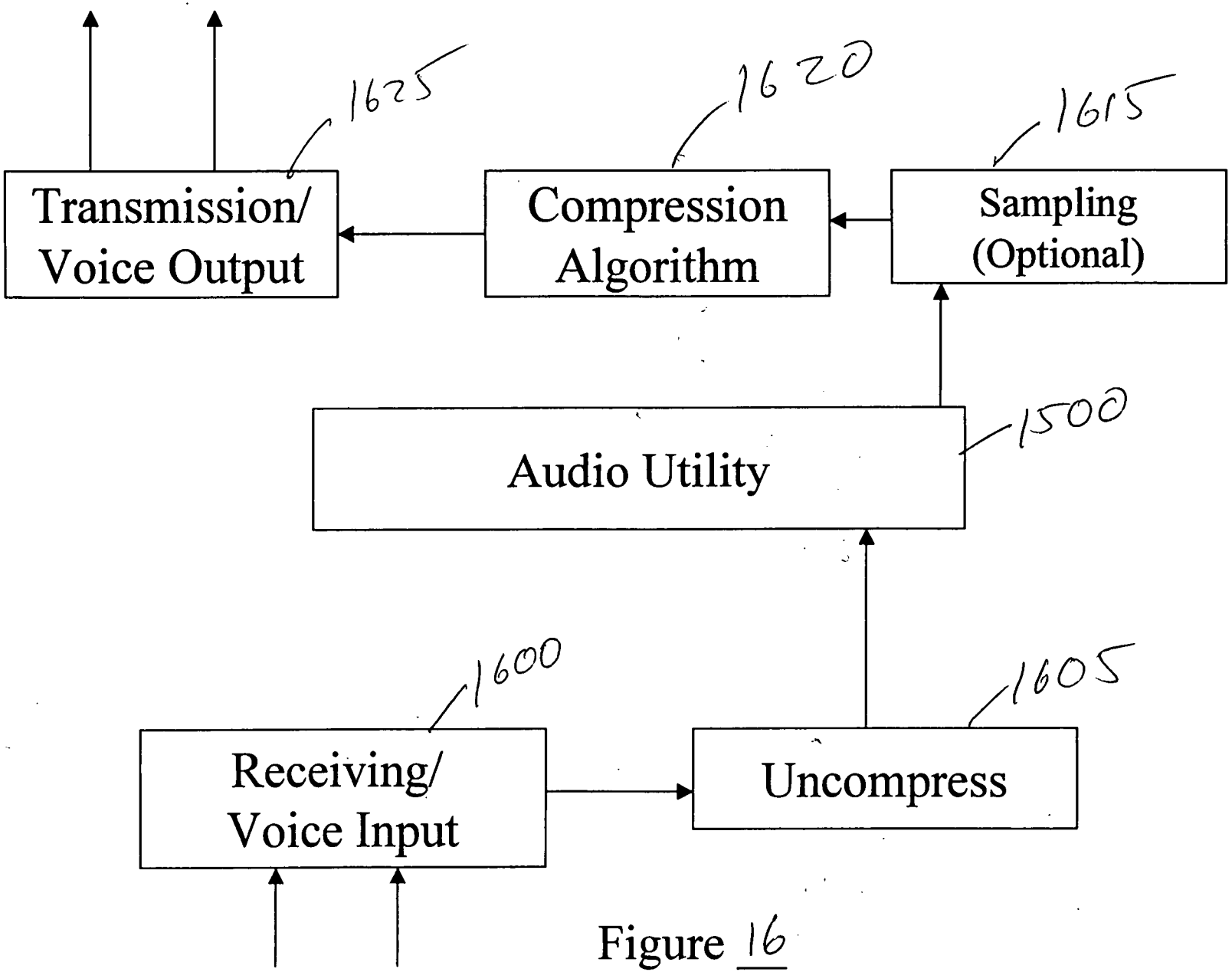

Figure 16

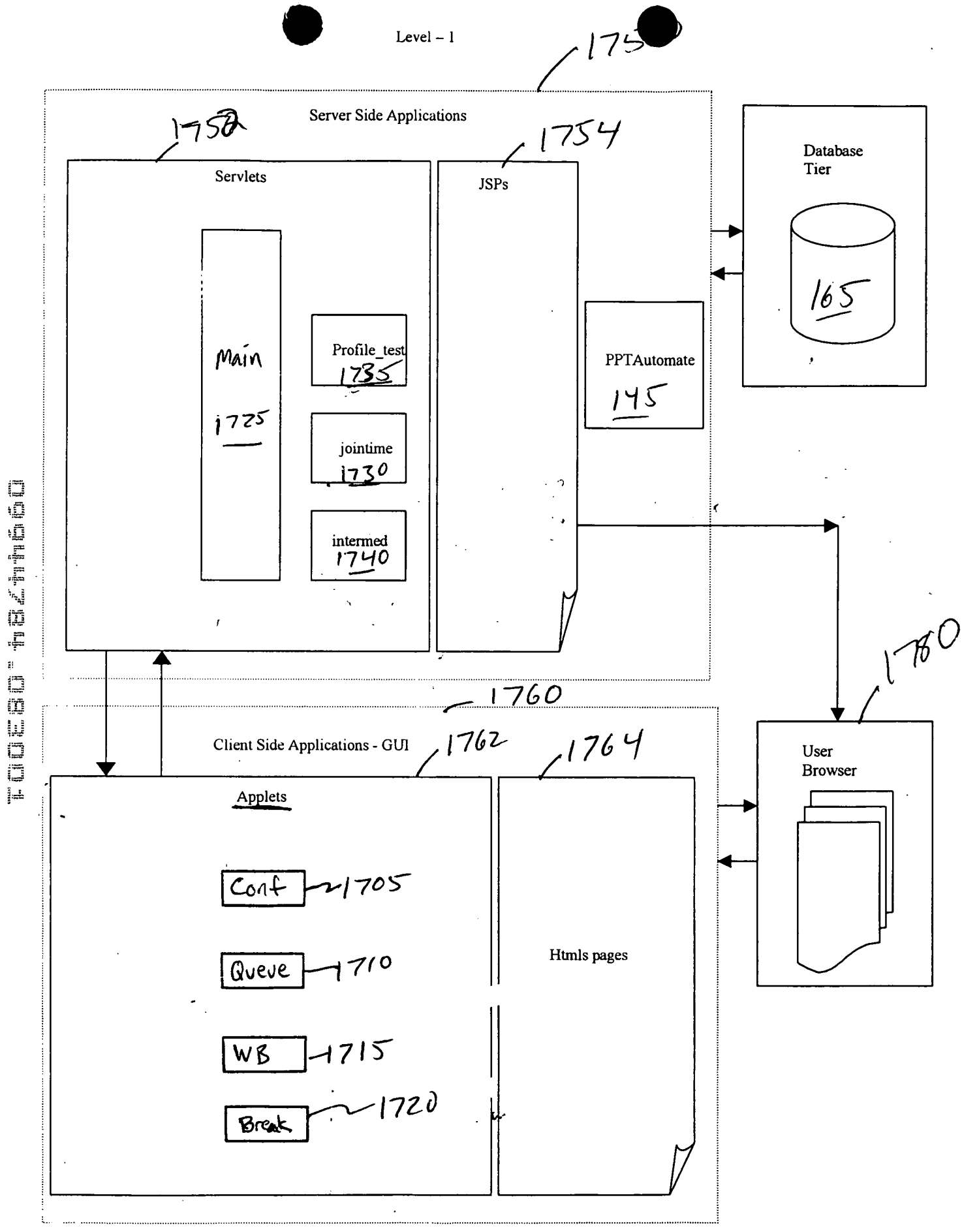
Level – 1
175
Server Side Applications
1752
1754
Servlets
JSPs
Database Tier
165
Main
1725
Profile_test
1735
jointime
1730
intermed
1740
PPTAutomate
145
1760
1780
Client Side Applications - GUI
1762
1764
Applets
Conf
1705
Queue
1710
WB
1715
Break
1720
Htmls pages
User Browser

Figure 17a

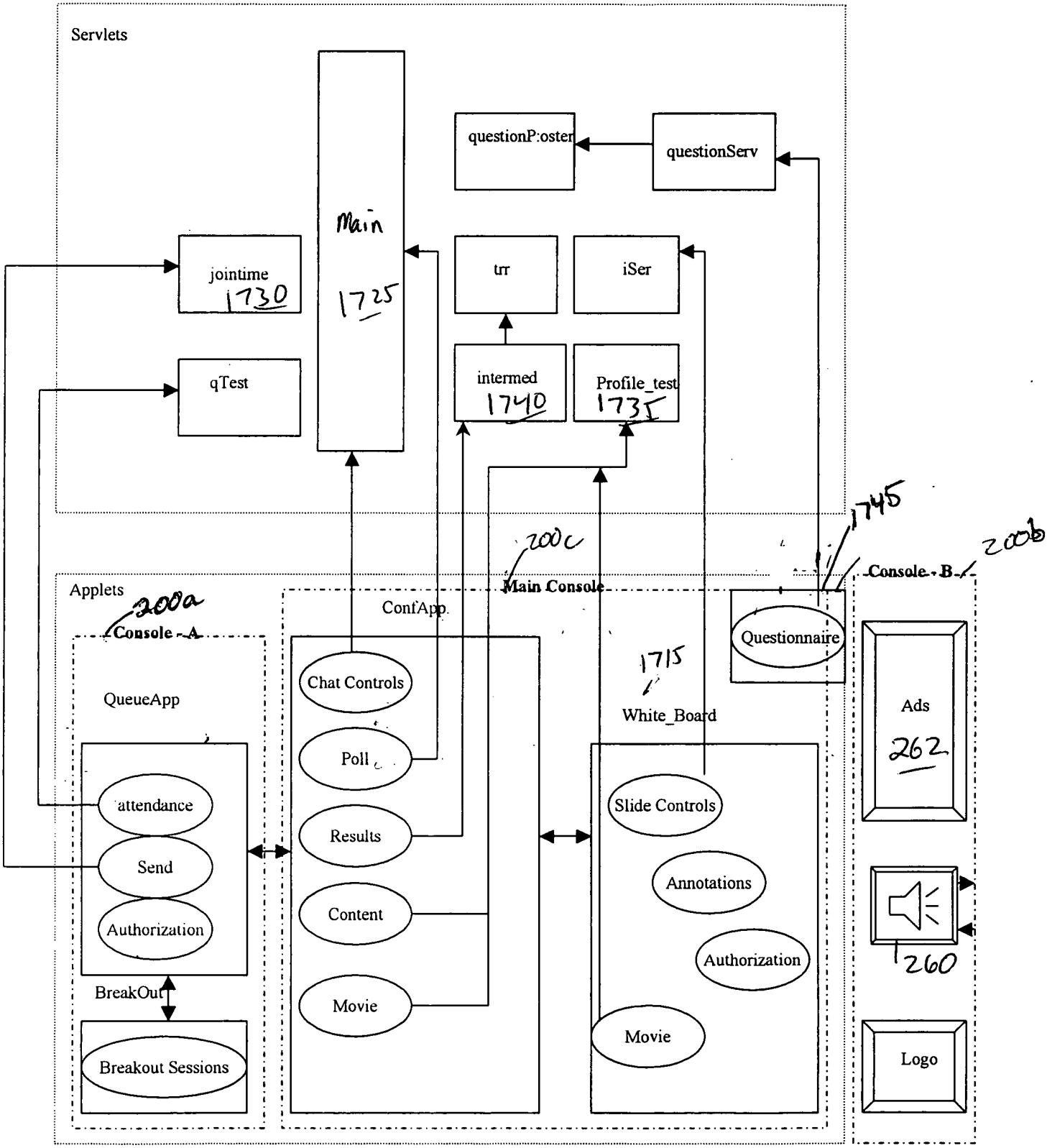
Servlets
Main
1725
questionP:oster
questionServ
jointime
1730
trr
iSer
qTest
intermed
1740
Profile_test
1735
1745
200c
200b
Applets
200a
Console - A
ConfApp.
Main Console
Console - B
Questionnaire
QueueApp
Chat Controls
1715
White_Board
Ads
262
Poll
attendance
Slide Controls
Results
Send
Annotations
Content
Authorization
Authorization
BreakOut
Movie
Movie
Breakout Sessions
260
Logo

Figure 17b

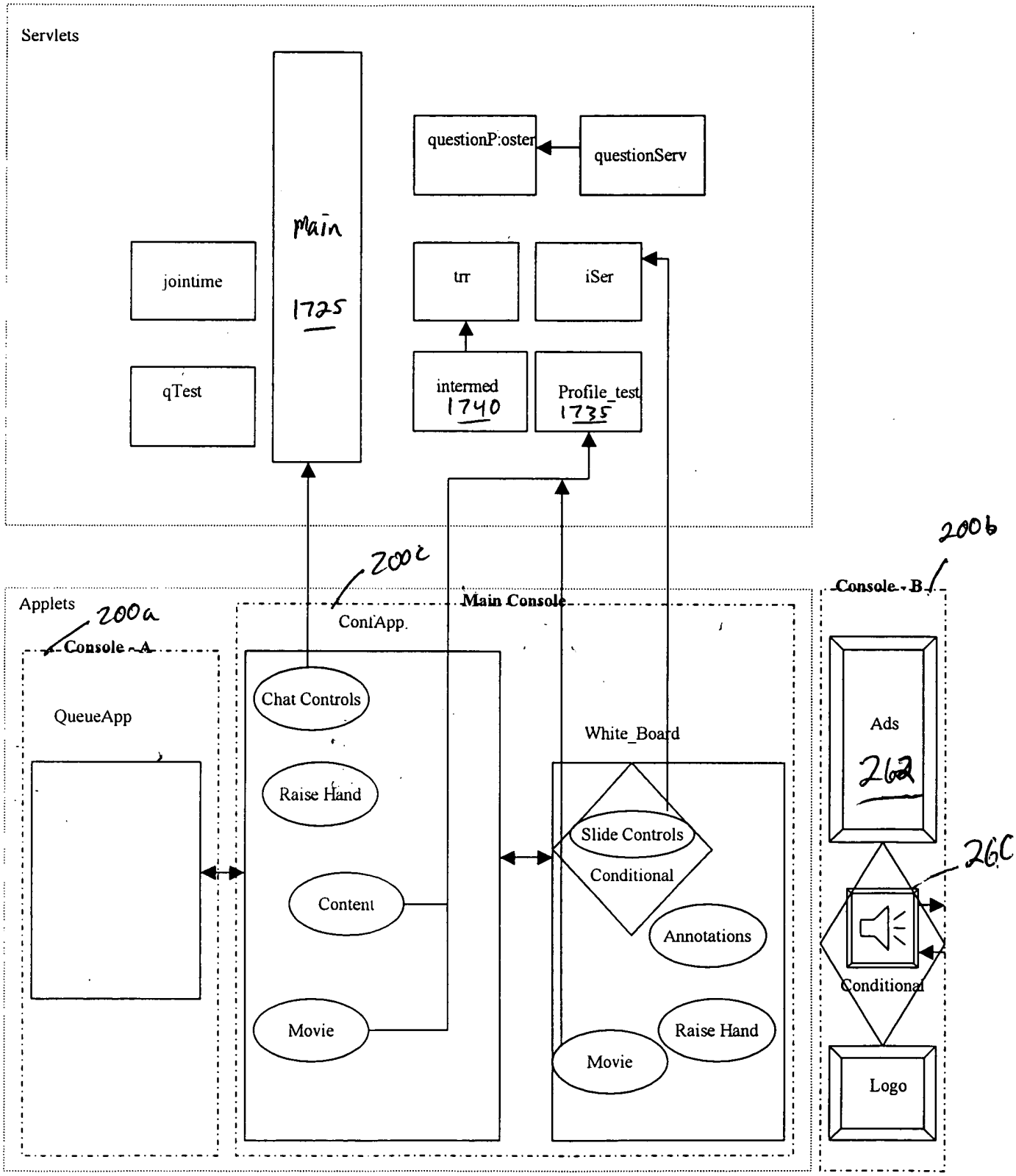
Servlets
main
1725
questionP:oster
questionServ
jointime
qTest
trr
iSer
intermed
1740
Profile_test
1735
200b
200c
Applets
200a
Console - A
ConfApp.
Main Console
Console - B
QueueApp
Chat Controls
Raise Hand
Content
Movie
White_Board
Slide Controls
Conditional
Annotations
Raise Hand
Movie
Ads
262
26C
Conditional
Logo

Figure 17c

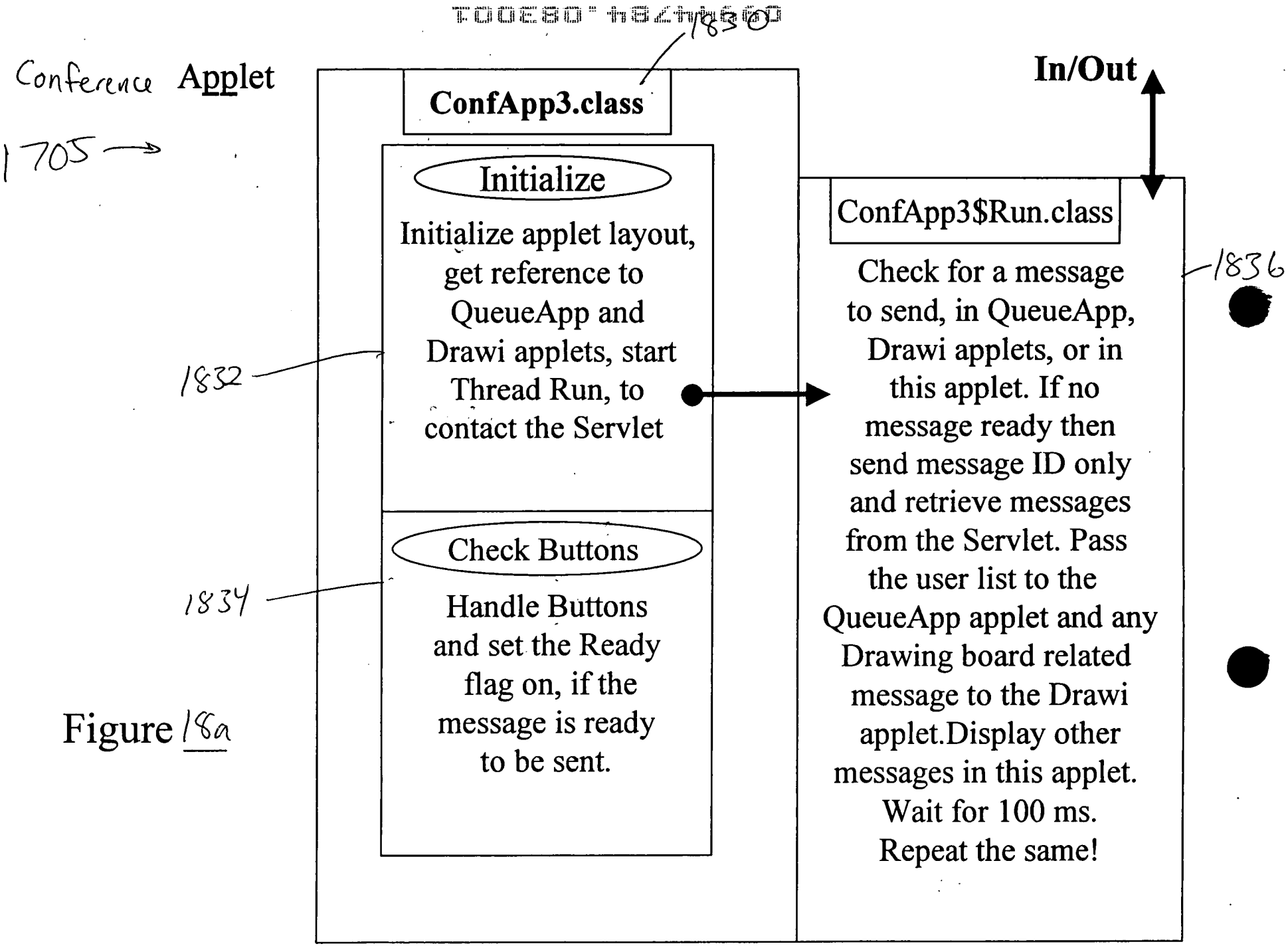
Conference Applet
1705
ConfApp3.class
1830
In/Out
Initialize
Initialize applet layout, get reference to QueueApp and Drawi applets, start Thread Run, to contact the Servlet
1832
Check Buttons
Handle Buttons and set the Ready flag on, if the message is ready to be sent.
1834
ConfApp3$Run.class
Check for a message to send, in QueueApp, Drawi applets, or in this applet. If no message ready then send message ID only and retrieve messages from the Servlet. Pass the user list to the QueueApp applet and any Drawing board related message to the Drawi applet.Display other messages in this applet. Wait for 100 ms. Repeat the same!
1836

Figure 18a

Queue Applet

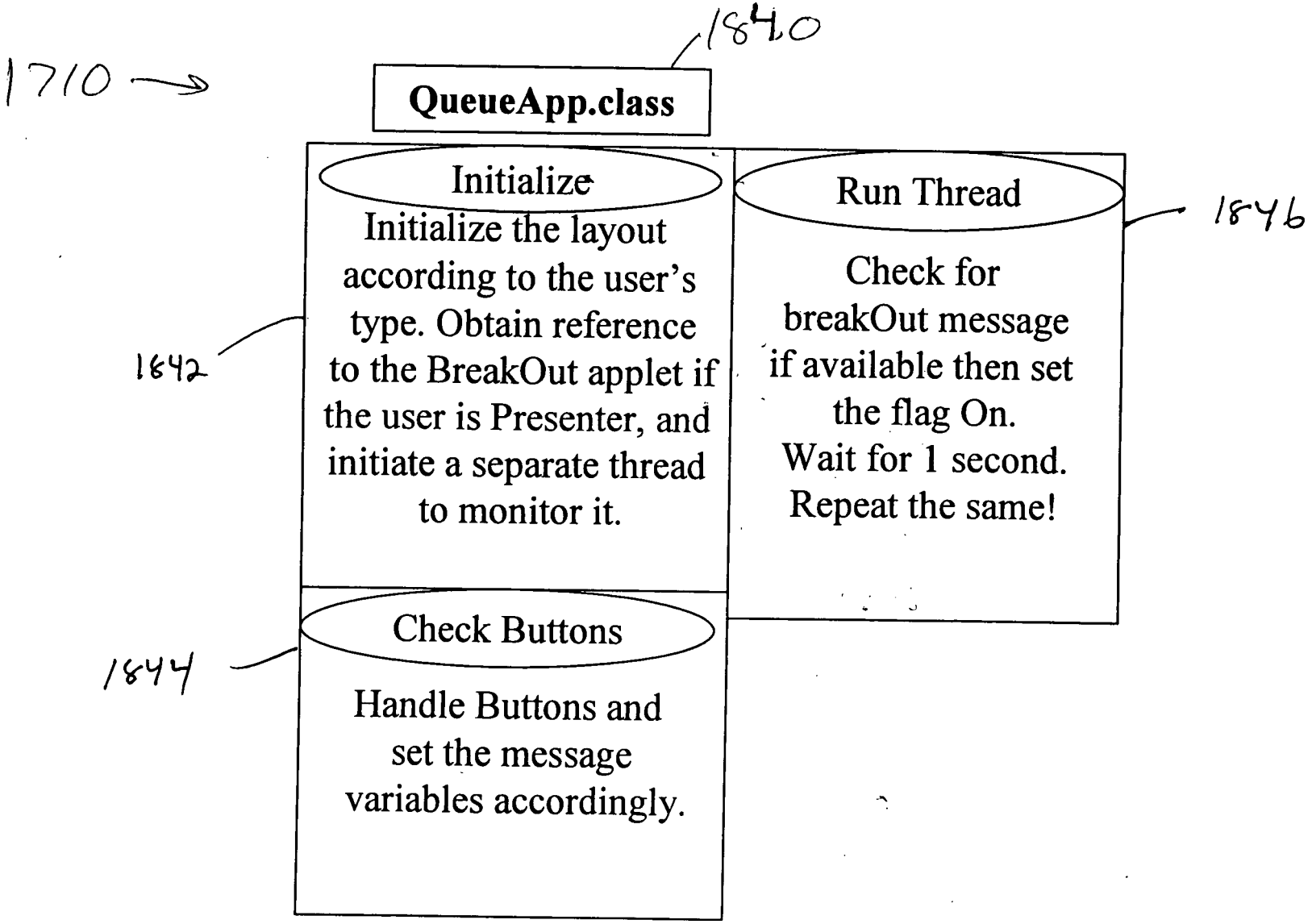

Figure 185

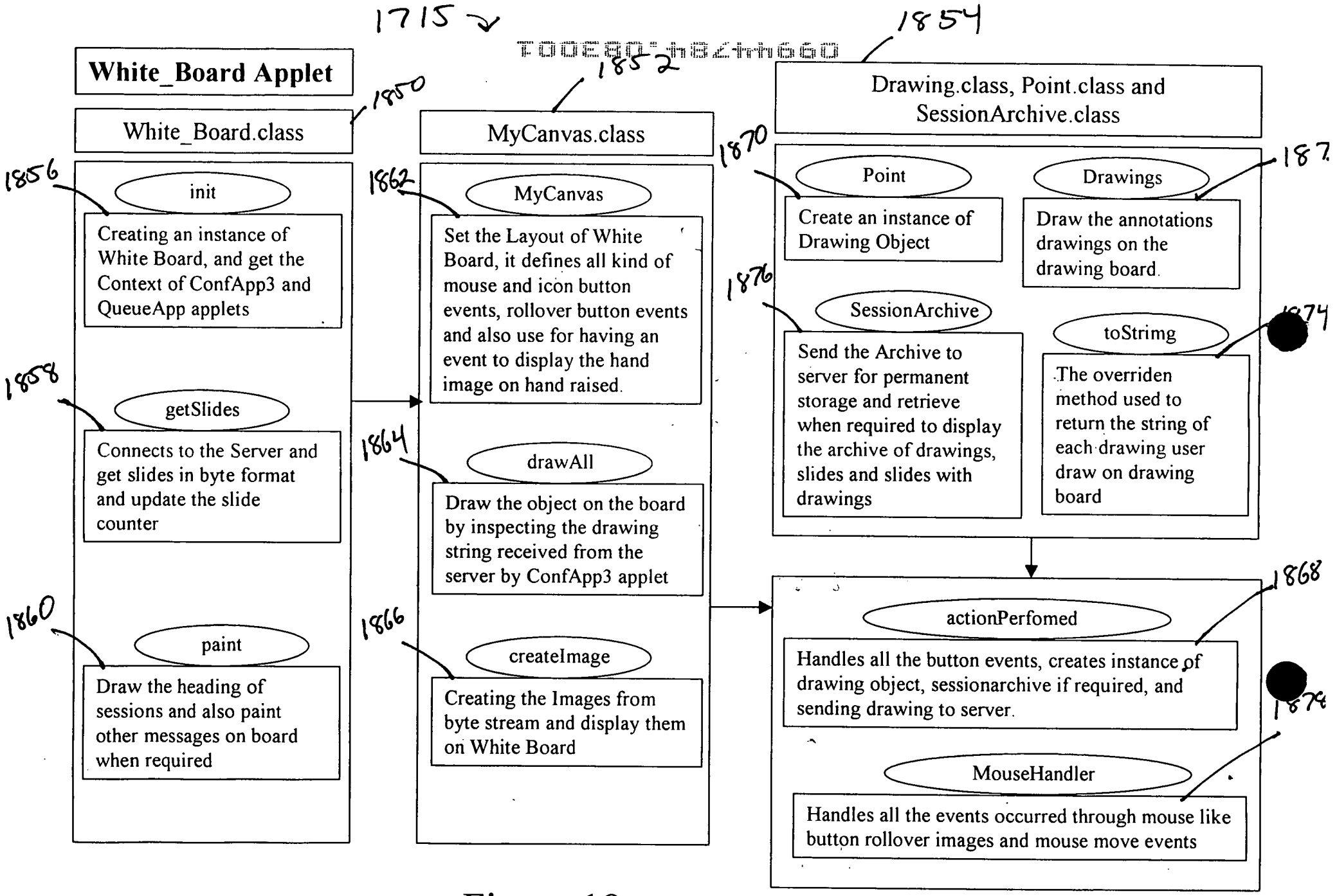
1715
1854
White_Board Applet
1850
1852
Drawing.class, Point.class and SessionArchive.class
White_Board.class
MyCanvas.class
1870
1856
init
Creating an instance of White Board, and get the Context of ConfApp3 and QueueApp applets
1862
MyCanvas
Set the Layout of White Board, it defines all kind of mouse and icon button events, rollover button events and also use for having an event to display the hand image on hand raised.
Point
Create an instance of Drawing Object
Drawings
Draw the annotations drawings on the drawing board.
1858
getSlides
Connects to the Server and get slides in byte format and update the slide counter
1864
drawAll
Draw the object on the board by inspecting the drawing string received from the server by ConfApp3 applet
1876
SessionArchive
Send the Archive to server for permanent storage and retrieve when required to display the archive of drawings, slides and slides with drawings
toStrimg
The overriden method used to return the string of each drawing user draw on drawing board
1860
paint
Draw the heading of sessions and also paint other messages on board when required
1866
createImage
Creating the Images from byte stream and display them on White Board
1868
actionPerfomed
Handles all the button events, creates instance of drawing object, sessionarchive if required, and sending drawing to server.
MouseHandler
Handles all the events occurred through mouse like button rollover images and mouse move events

Figure 18c

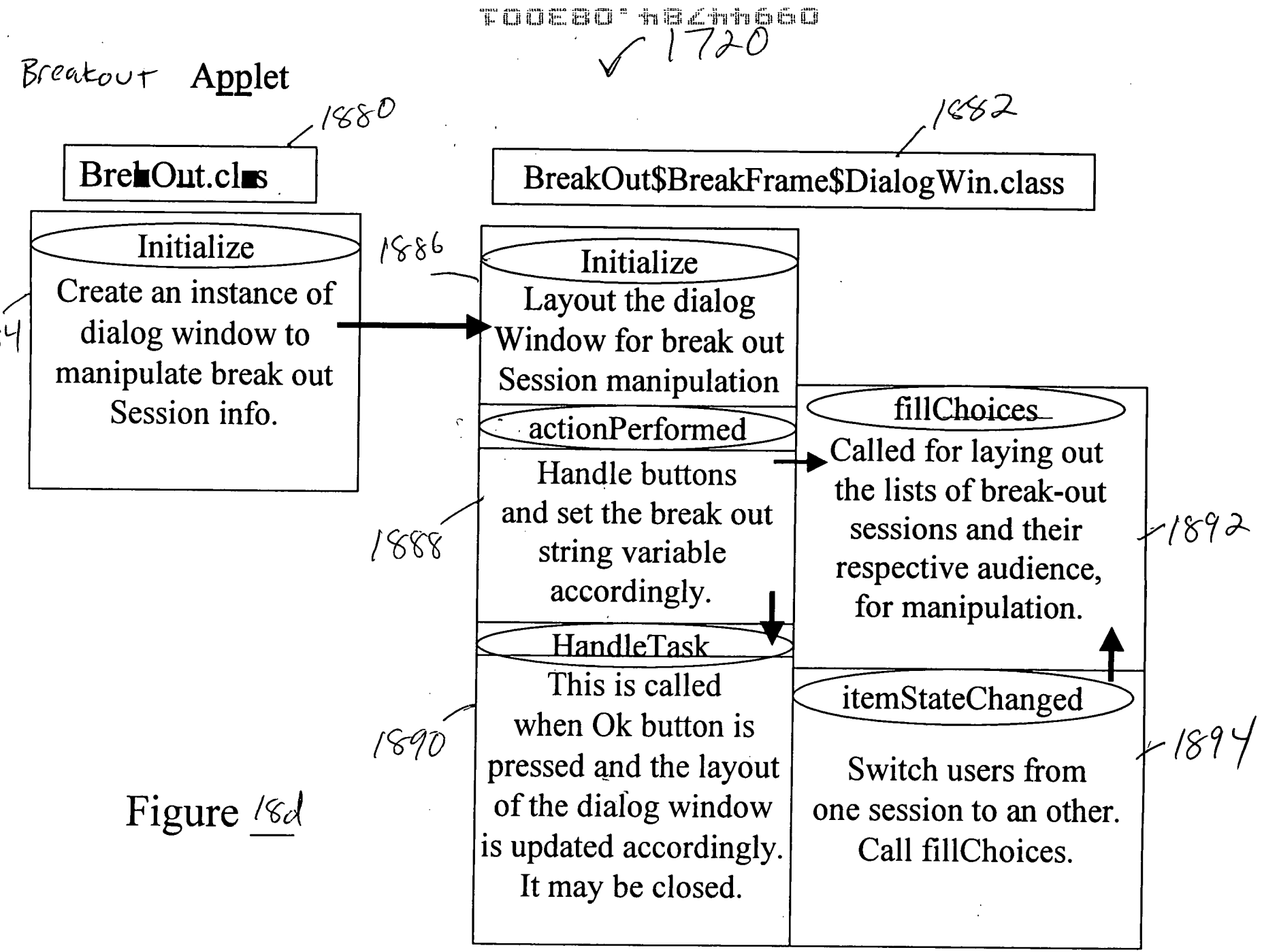
Breakout Applet
1880
BreakOut.class
1882
BreakOut$BreakFrame$DialogWin.class
Initialize
Create an instance of dialog window to manipulate break out Session info.
1884
1886
Initialize
Layout the dialog Window for break out Session manipulation
actionPerformed
Handle buttons and set the break out string variable accordingly.
1888
HandleTask
This is called when Ok button is pressed and the layout of the dialog window is updated accordingly. It may be closed.
1890
fillChoices
Called for laying out the lists of break-out sessions and their respective audience, for manipulation.
1892
itemStateChanged
Switch users from one session to an other. Call fillChoices.
1894

Figure 18d

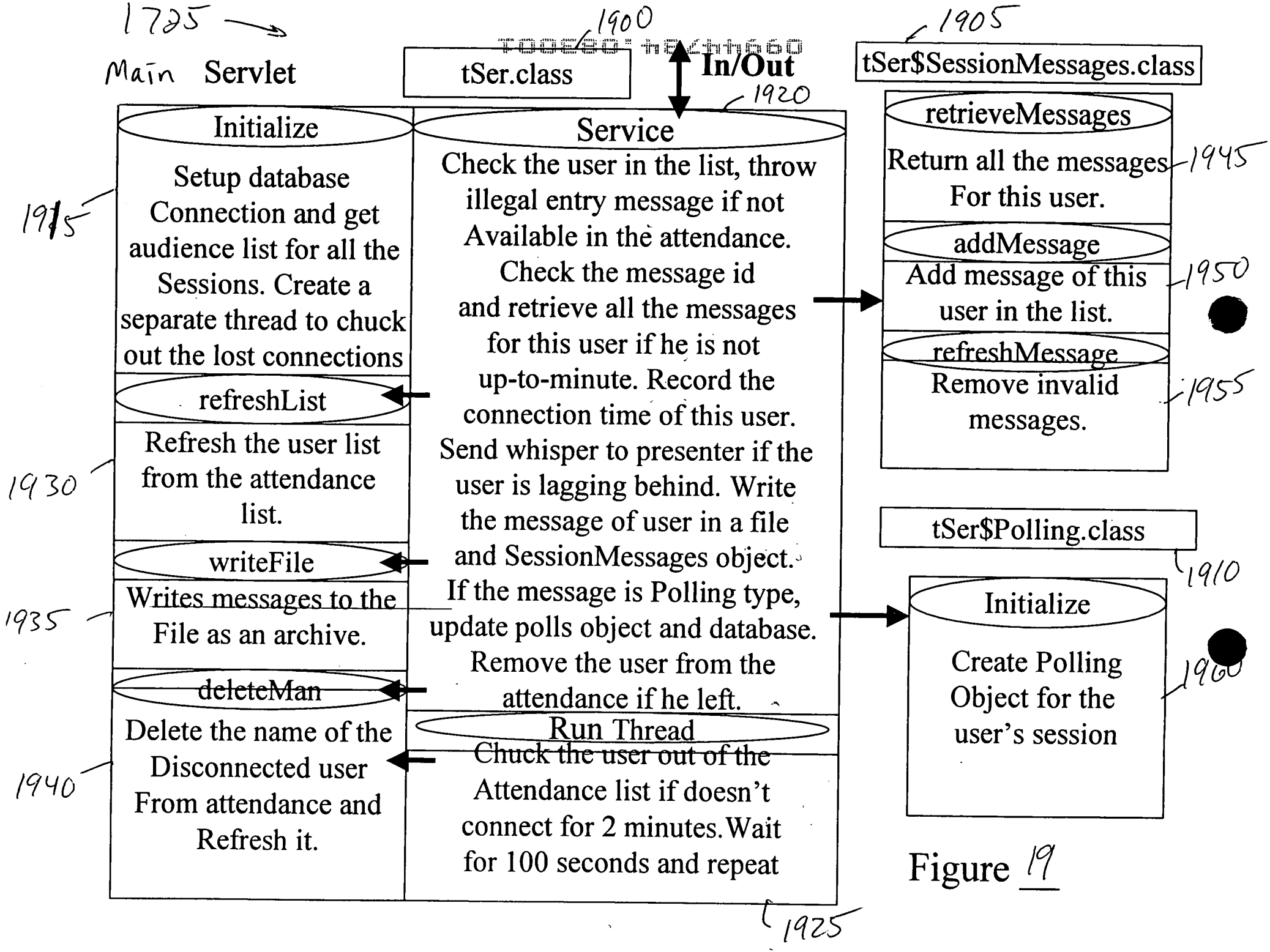
1725
Main Servlet
1900
tSer.class
In/Out
1905
tSer$SessionMessages.class
1920
Initialize
Setup database Connection and get audience list for all the Sessions. Create a separate thread to chuck out the lost connections
1915
refreshList
Refresh the user list from the attendance list.
1930
writeFile
Writes messages to the File as an archive.
1935
deleteMan
Delete the name of the Disconnected user From attendance and Refresh it.
1940
Service
Check the user in the list, throw illegal entry message if not Available in the attendance. Check the message id and retrieve all the messages for this user if he is not up-to-minute. Record the connection time of this user. Send whisper to presenter if the user is lagging behind. Write the message of user in a file and SessionMessages object. If the message is Polling type, update polls object and database. Remove the user from the attendance if he left.
Run Thread
Chuck the user out of the Attendance list if doesn't connect for 2 minutes. Wait for 100 seconds and repeat
1925
retrieveMessages
Return all the messages For this user.
1945
addMessage
Add message of this user in the list.
1950
refreshMessage
Remove invalid messages.
1955
tSer$Polling.class
1910
Initialize
Create Polling Object for the user's session
1960

Figure 19

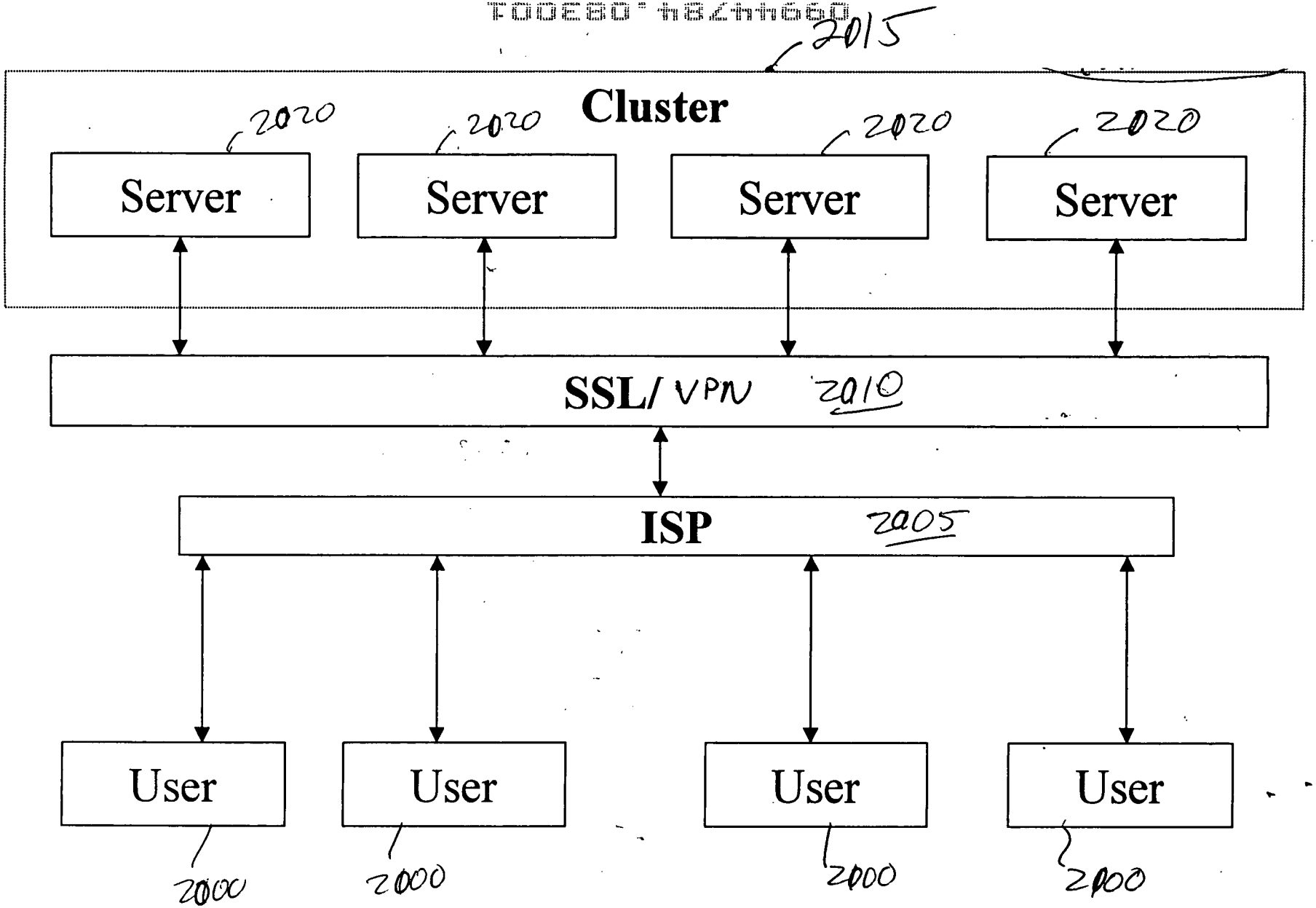
2015
Cluster
2020
Server
2020
Server
2020
Server
2020
Server
SSL/ VPN
2010
ISP
2005
User
User
User
User
2000
2000
2000
2000

Figure 20

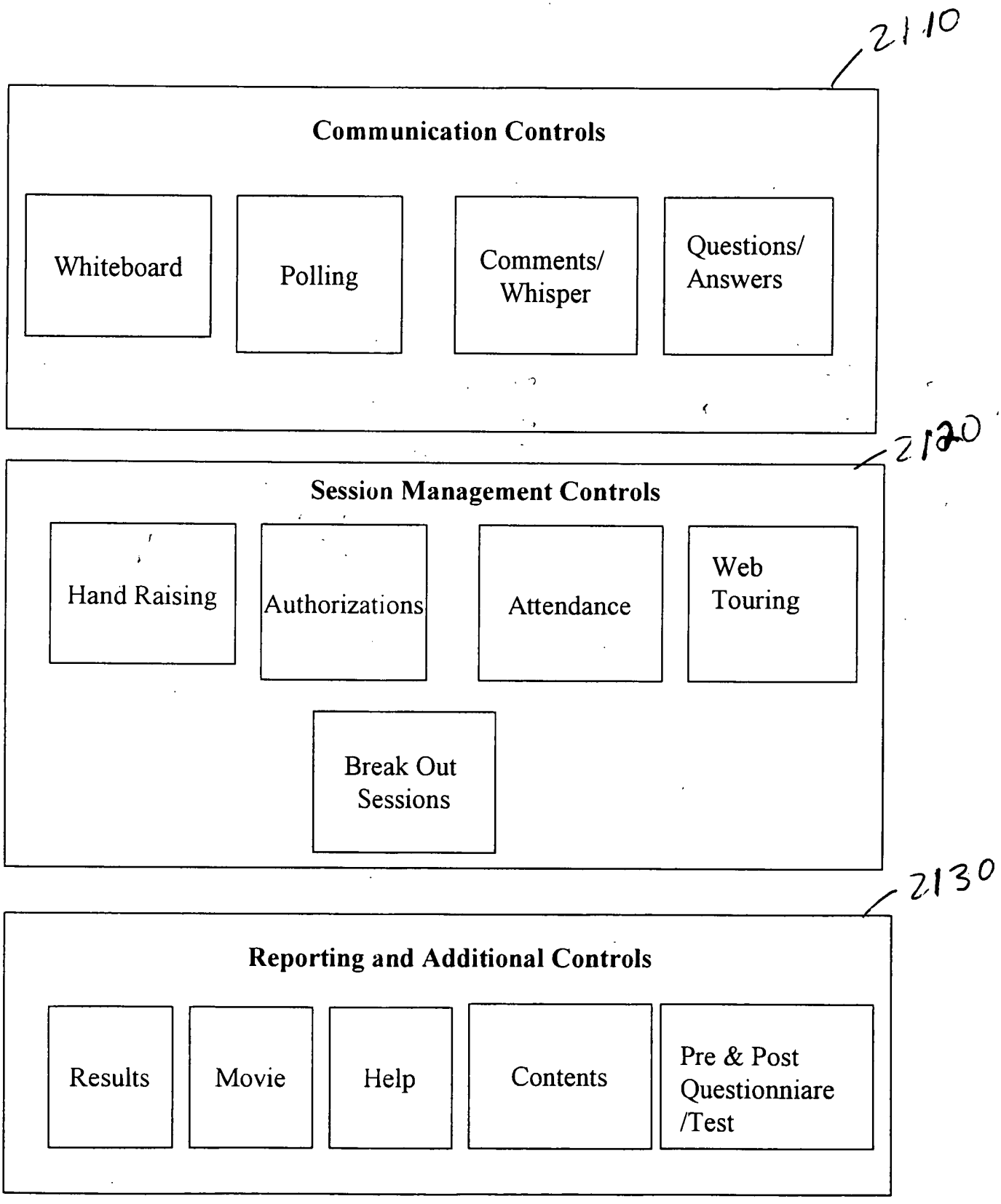
2110
Communication Controls
Whiteboard
Polling
Comments/ Whisper
Questions/ Answers
2120
Session Management Controls
Hand Raising
Authorizations
Attendance
Web Touring
Break Out Sessions
2130
Reporting and Additional Controls
Results
Movie
Help
Contents
Pre & Post Questionniare /Test

Figure 21

T00E80 h3Zhh660

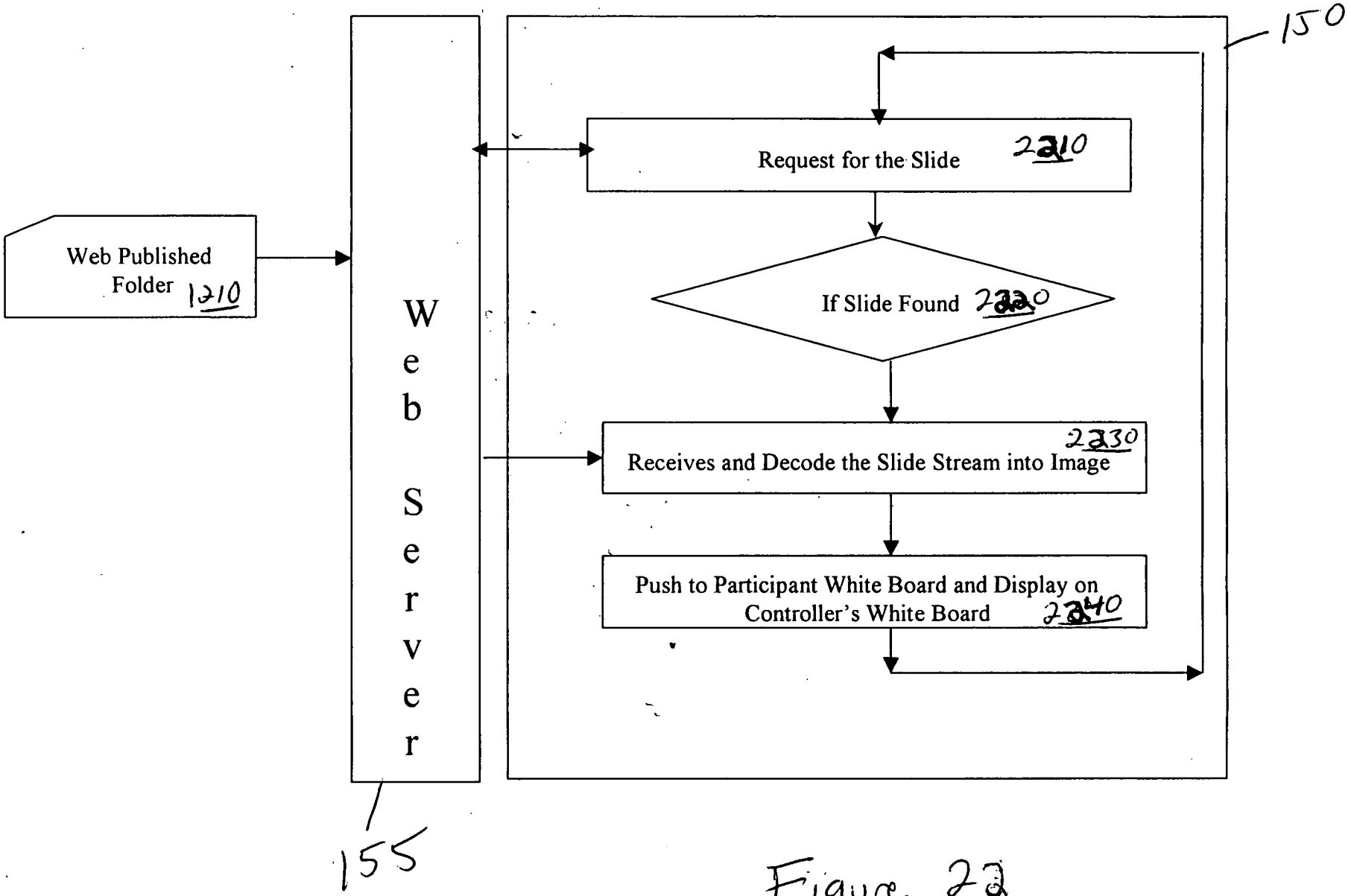

Figure 22